



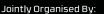


KLCC
KL CONVENTION
CENTRE, MALAYSIA





SCAN HERE for more info



ECO BUILDING & DESIGN EXHIBITION



Featuring:





Wednesday 15th & Thursday 16th March

Sands Expo & Convention Centre, Marina Bay Sands, Singapore



in conjunction with





Advancing sustainable & resilient geospatial solutions for an interconnected world

Asia's leading international geospatial industry show & conference returns to Singapore in March - register to attend now!

The third edition of Geo Connect Asia on the 15th & 16th March in Singapore provides the opportunity to focus on how digital construction and geospatial-based solutions can drive productivity across the building and construction industries.

Geo Connect Asia celebrates the return to a normal meeting environment, in March in Singapore, combining an exhibition of more than 100 companies and a series of conferences. The Main Stage Conference theme, Advancing sustainable & resilient geospatial solutions for an interconnected world, reflects the need to respond to sustainability goals with the pressing challenges associated with climate change, urban growth and a digitalised world, amongst many others.

Geo Connect Asia incorporates Digital Construction Asia and is co-located with the inaugural Drones Asia Show. The combined event is expected to attract more than 3000 delegates and visitors from Singapore and the Asian region.

Supported by the Singapore Land Authority Geo Connect Asia offers a platform for Southeast Asia's governments, business and not for profit sectors to bring geospatial, locational intelligence and remote sensing into the mainstream.









Join the networking hub and connect with the APAC geospatial community

Learn how access to data from the geospatial & location intelligence world can offer insights to drive the success of your business

Choose from more than 50 free to attend presentations on the Tech Talk Stage

VISITOR REGISTRATION IS NOW OPEN

Scan to register now!

Combines world leading companies with some of the most dynamic start-ups

From **drone** and **digital construction** applications to mapping and surveying solutions







jan-feb 2023 NTENTS



Project: IT Agency. Interior Design: Blaine Robert Design Sdn Bhd Photo credit: Blaine Robert Design Sdn Bhd Page 48

EDITOR'S NOTE

4 Letter from the editor

NEWS

6 Asia Pacific, Middle East and World

FEATURES: ADAPTIVE REUSE

- 22 Enabling Village / Singapore
- 26 Lazada One / Singapore
- 30 Restoration of St James Power Station / Singapore
- 36 The Opera House / Bangalore
- 40 Yangshuo Sugarhouse Hotel / Guangxi
- 44 WA Museum Boola Bardip / Perth

SEAB

On the Cover: Enabling Village in Singapore. Photographer: Edward Hendricks

Cover design by Fawzeeah Yamin

FEATURES: COMMERCIAL INTERIOR DESIGN

48 IT Agency / Selangor

FEATURES: PLAYGROUNDS & LANDSCAPING

52 BigToys builds playground equipment with recycled content

MECHANICAL, ELECTRICAL & PLUMBING SYSTEMS

53 Industry news & projects

SHOW REVIEWS

- 58 Glasstech Asia and Fenestration Asia 2022
- 66 Architecture & Building Services (ABS) 2022

EVENTS

77 Guide to tradeshows, conferences and other events relevant to the building and construction industry

Scan QR Code



or visit our website http://seab.tradelinkmedia.biz

Connect with us on social media!



www.facebook.com/ southeastasiabuilding



www.twitter.com/ SEA_Building



www.instagram.com/ southeastasiabuildina



ASSOCIATE PUBLISHER

Eric Ooi (eric.ooi@tradelinkmedia.com.sg)

FDITOR

Amita Natverlal (seab@tradelinkmedia.com.sg)

MARKETING MANAGER

Felix Ooi (felix.ooi@tradelinkmedia.com.sg)

HEAD OF GRAPHIC DEPT/ADVERTISEMENT CO-ORDINATOR

Fawzeeah Yamin (fawzeeah@tradelinkmedia.com.sg)

CIRCULATION

Yvonne Ooi (yvonne.ooi@tradelinkmedia.com.sg)

Disclaimer

All advertisers and contributors must ensure all promotional material and editorial information submitted for all our publications, must be free from any infringement on patent rights and copyrights laws in every jurisdiction. Failure of which, they must be fully liable and accountable for all legal consequences (if any) that may arise.

The Editor reserves the right to omit, amend or alter any press release submitted for publication. The publisher and the editor are unable to accept any liability for errors or omissions that may occur, although every effort has been taken to ensure that all information is correct at the time of going to press. No portion of this publication may be reproduced in whole or part without the written permission of the publisher.

The editorial contents contributed by consultant editor, editor, interviewee and other contributors for this publication, do not, in any way, represent the views of or endorsed by the Publisher or the Management of Trade Link Media Pte Ltd. Thus, the Publisher or Management of Trade Link Media will not be accountable for any legal implications to any party or organisation.

Southeast Asia Building is available free-of-charge to applicants in the building industry who meet the publication's terms of control. For applicants who do not qualify for free subscription, copies will be made available, subject to acceptance by the publisher, for a subscription fee, which varies according to the country of residence in the following manner:

Annual Subscription

Airmail: America/Europe – S\$185, Japan, Australia, New Zealand – S\$185, Middle East – \$185, Asia – S\$155, Malaysia / Brunei – S\$105 Surface mail: Singapore – S\$60

Surface mail: Singapore – S\$60 (Incl 7% GST Reg No.: M2-0108708-2)

Printed in Singapore by Fuisland Offset Printing (S) Pte Ltd MCI (P) 041/08/2022 KDN No: 1560 (1270) - (6) ISSN 2345-7066 (Print) and ISSN 2345-7074 (E-periodical)

Trade Link Media Pte Ltd also publishes:

- Bathroom + Kitchen Today
- Lighting Today
- Security Solutions Today
- Southeast Asia Construction

SOUTHEAST ASIA BUILDING is published bi-monthly by:
Trade Link Media Pte Ltd, 101 Lorong 23, Geylang,
#06-04, Prosper House, Singapore 388399
Tel: +65 6842-2580 Fax: +65 6842 2581
Editorial e-mail: seab@tradelinkmedia.com.sg
Website: www.tradelinkmedia.com.sg

Co. Reg. no.: 199204277K

The Only Off-Site Construction Expo in Korea



MODULAR KOREA PRE-CON KOREA

Feb. 16(Thu) - 19(Sun), 2023 KINTEX, Ilsan, Republic of Korea

[EXHIBITION]

Off-Site Construction EXPO specialized in Construction and Civil Engineering

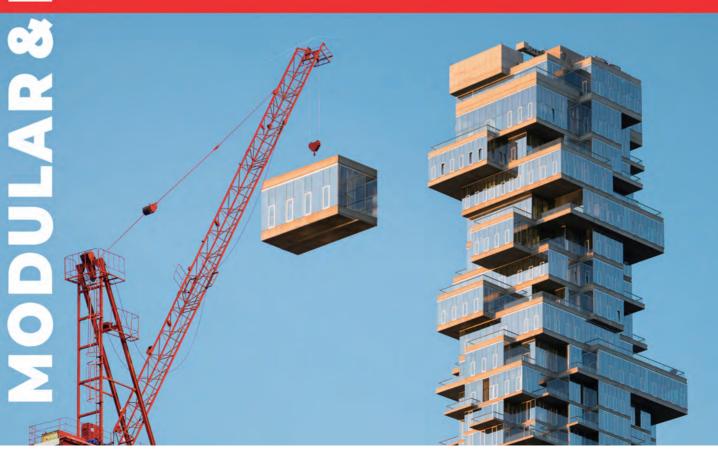






[PROGRAM]

Modular & Precast Concrete Forum
Digital Construction Technology Conference
OSC(Off-Site Construction) LIVE Show
Business Matching















Welcome to Jan/Feb issue!

ear readers, a happy and blessed New Year to you. This issue is about sustainability and we could not find a better topic than adaptive reuse. As many of you know, adaptive

reuse plays an important role in sustainable development. It uses less building materials and lower cost to repurpose a building than to construct a new one. There are many good examples of adaptive reuse projects and we have compiled some of them for you in this issue.

As mentioned before, we will introduce interior design and landscaping topics in our 2023 issues. This is to meet the various needs of our readers such as architects, interior designers, landscape architects & designers. We hope you enjoy reading the projects that we have put together in these sections.

In the PDF copy, we have showcased a selection of products that were exhibited at the Architecture & Building Services (ABS) 2022 and Glasstech Asia and Fenestration Asia 2022 shows. If you want to catch up with the latest technology, do not miss the show reviews.

If you have any comments or feedback, please drop me an email at seab@tradelinkmedia.com.sg

Take care!

Amita Natverlal

March / April 2023 Issue FEATURES:

- Infrastructure Architecture
- Residential Interior Design
- Playgrounds & Landscaping









Industry Partners of SEAB









Association of Myanmar Architects

Bangladesh Green Building Council

Design Council - Sri Lanka





Emirates Green Building Council

Foundation for Futuristic Cities

Green Building Committee BEI MYANMAR







Green Building

Council Italia

Green Building Council Mauritius







Green Building Council Namibia

Green Building Council Sri Lanka

Hong Kong Green Building Council







Interior Design Confederation of Singapore

Jordan Green **Building Council**

Oatar Green Building Council







Philippine Green

Singapore Green Building Council

Society of Interior







The Hong Kong Institute of Architects

Vietnam Green **Building Council**

Green Institute Nepal

Green







Interior Designers Association of Nepal

Singapore Institute of Building Limited

Society of British and International Interior Design



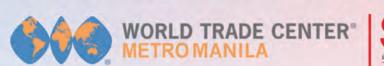
THE LEGACY CONTINUES







10:00 AM-7:00 PM















CentralWalk shines at the 2022 Global RLI Awards

Hong Kong – Aedas-designed Link Central Walk was awarded Winner under RLI International Shopping Centre – Renovation category at this year's Global RLI Awards.

Located in the Futian CBD area of Shenzhen sitting on the central axis of the district, Link CentralWalk is surrounded by a network of financial institutions, civic and retail centres and convenient transportation. After decades of rapid development, it was in need of renovation and Aedas has taken up the enhancement work. The plan is chiefly about strengthening indoor-outdoor relationship, improving connectivity and circulation, and to increase commercial value for every retailer through strategical planning, interior and façade makeover as well as landscape upgrade. Positioned as an "urban paradise on the central axis of Futian", the project provides a sensory journey where visitors could immerse themselves in a "slow space" and four seasons themed areas.



Photo credit: TAL

CentralWalk makes for an ideal locale for social activities as

well as relaxation. "Designating themes of fun versus leisure, the piazzas are redesigned with increased accessibility, public seating and communal spaces perfect for alfresco dining, seasonal events, interactive art installations, leisure activities and more. CentralWalk is a green-inspired hub that will set the new benchmark for retail architecture and urban living," said Aedas Executive Director Ed Lam.

CapitaLand Ascott Trust retains top sustainability ranking as 'Global Sector Leader' in 2022 GRESB Real Estate Assessment for second consecutive year

Singapore – CapitaLand Ascott Trust (CLAS) has been named 'Global Sector Leader – Hotel' and ranked first in the 'Asia Pacific Hotel – Listed' category in the 2022 GRESB Real Estate Assessment (GRESB) for the second consecutive year. CLAS also scored 'A' for public disclosure for the second year running.

In recognition of its outstanding leadership in sustainability, CLAS is also the only hospitality trust from the 'Asia Pacific

Citadines City Centre Frankfurt. Photo credit: CapitaLand Ascott Trust

Hotel – Listed' category to receive the highest rating of 5 stars this year, placing CLAS in the top 20 percent of the benchmark globally. CLAS improved its performance from a 4-star rating last year to receive its first 5-star rating in 2022.

Ms Serena Teo, Chief Executive Officer of CapitaLand Ascott Trust Management Limited and CapitaLand Ascott Business Trust Management Pte. Ltd. (the Managers of CLAS) said: "CLAS places sustainability at the core of everything we do, from greening our global portfolio, reducing our carbon footprint and incorporating sustainability into our investment and financing decisions. Being recognised as a global sector leader in GRESB for the second consecutive year is an affirmation of our leadership in sustainability. We are pleased to be the only hospitality trust in Asia-Pacific to receive the coveted 5-star rating from GRESB. These achievements will enhance CLAS' standing as not only the proxy hospitality trust in Asia-Pacific but also as one of the most sustainable investment trusts."

"As we expand CLAS' footprint globally to deliver long-term sustainable value to our Stapled Securityholders, we also continue to work with our operators and lessees to green our properties globally, and strengthen our environmental, social and governance (ESG) efforts in the communities we operate in," added Ms Teo.







6-8 September 2023 Sands Expo & Convention Centre, Singapore



Where Your Conversations Begin and Business Happens

Speak to us to find out how BEX Asia can position your company for success in Southeast Asia's fast growing construction market.

MEET DECISION MAKERS AND KEY SPECIFIERS IN THE BUILT ENVIRONMENT INDUSTRY

BEX Asia, the region's premiere market intelligence platform for the built environment, will be back on 6 - 8 September 2023. Connect with key decision makers and potential buyers from the region to generate successful business connections and leads.

BEX Asia 2022 AT A GLANCE



8.000 Exhibition Space







1.600 Conference Delegates



== Participating Brands



Countries / Region



Speakers

VISITOR PROFILES

- Architects
- AV System Integrators/Installers
- Building System Integrators
- Consultants
- Contractors and Sub-contractors
- Developers
- Engineers
- Facility Managers
- Head of Project/Construction
- HVAC Contractors/Installers
- Interior Designers

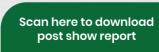
And many more

22% Interior Design Sustainability **WHAT OUR BUYERS ARE LOOKING FOR** 19% 19% Digitalisation Smart Facility Management Mechanical, Electrical & Plumbing

Advanced

Construction Solutions

Scan here to exhibit with us





11%

Architectural &

For more information about the event and booth booking enquiry, please contact:

Ms. Patsy Leung M:+ 65 9388 8190 E: patsy.leung@rxglobal.com **Mr. Henry Stonham** M:+65 9119 4721 E: henry.stonham@rxqlobal.com







Build(sG)







10 Design creates experiential retail space at CIFI Changde Plaza

Hong Kong –10 Design (part of Egis Group) has unveiled one of its major retail interiors schemes – CIFI Changde Retail Mall, setting a benchmark for experiential retail spaces in the city.

The 21,500 square metres Retail Mall is designed in response to the varied and ever-evolving needs of the new generation of consumers. When complete, it will accommodate an "Open House" for flexible use, diverse themed zones focusing on sports, wellbeing and culture, together with an extensive gastronomy offer with cafes, themed food courts, fine dining and more.

Jointly led by Design Principals Chin Yong Ng and Lukasz Wawrzenczyk, the design envisions an idyllic paradise and urban retreat in the bustling city. Drawing inspiration from the fabled "Peach Blossom Land" originated in the region, it reinterprets the classical Chinese aesthetics into modern design languages, with streamlined arcs and undulating forms adopted to create a layered spatial experience.

By optimising the circulation flow, the design seeks to evoke a sense of discovery and exploration throughout the mall. The journey begins as visitors access through the main entrance, where they will be greeted by the light-filled main atrium. The void edge is adorned by a series of accentuating platforms housing pop-up stores, cafes and flexible spaces, generating visual linkage between the retail floors and informing shoppers of their next destination.

The kid's zone is centred around a common space on 3/F integrating interactive installations, workshops and learning



Image Courtesy of 10 Design.

facilities suitable for kids of all ages; whereas F&B spaces are set on a higher level for parents to relax and recharge while keeping their children in sight.

For youngsters looking for a gastronomic adventure, a culture-themed food court is set at the basement with direct access from the Sunken Plaza. To curate an idiosyncratic journey of sensations, the space is transformed into a lively food market marrying digital technology with the locals' collective memory of traditional living.

Jan Schoemaker appointed regional president for Danfoss Asia Pacific

Singapore – Danfoss Asia Pacific announced that Jan Schoemaker has joined the company as regional president, effective January 2023.

Jan has been with Danfoss Climate Solutions for 23 years holding multiple roles from sales, business development, and business leadership. His forte is in the commercial building and district energy expertise focusing on heating, cooling and automation solutions towards a greener and smarter tomorrow. His most recent role prior to this new assignment was Global Vice President District Energy where he was based in Netherlands.

"I am very excited to join the

Asia Pacific team and to drive the business growth together with my new colleagues, partners and customers. This region is rich with opportunities and untapped potential for us to explore. The market here is growing rapidly now as governments and policy makers are actively pushing and demanding for digital, sustainable and electrified solutions, and Danfoss has it all," said Jan.

Jan Schoemaker will be based in Singapore overseeing the entire business portfolio in the Asia Pacific region with the aim to drive business transformations within the organisation as well as the external market approach.



Jan Schoemaker. Photo courtesy of Danfoss

Where Innovations Thrive

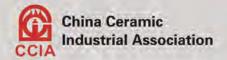


The 37th Edition of China International Exhibition for Ceramics Technology, Equipment & Product

Concurrently with: China International Exhibition of Technology, Equipment and Raw Materials for Sanitaryware

June 19-22, 2023

Area A, Canton Fair Complex, Guangzhou





Tel: 0086-20-8327 6369 / 6389

Facebook: @Ceramics China Twitter: @ceramics_china Email: ceramicschina@unifair.com Web: www.ceramicschina.com.cn

Magnom Properties supports Saudi Arabia's decarbonisation goals with sustainable projects across the country

Al Khobar, Kingdom of Saudi Arabia — Magnom Properties, a subsidiary of Saudi Arabia's Rawabi Holding, is underlining its commitment to building greener, smarter cities, with the announcement of plans to develop a number of sustainable real estate projects across Saudi Arabia in partnership with Adrian Smith + Gordon Gill Architecture, (AS+GG Architecture) and The Carbon Lab based in Chicago, USA.

The new developments in the commercial and retail sectors will be a model of best practices in sustainability in line with Saudi Arabia's unified vision for the future and its pledge to cut the nation's carbon emissions to net zero.

Renowned architect Adrian Smith and his partner Gordon Gill, representing their international design firm, AS+GG Architecture, who visited Saudi Arabia recently, will lead these ambitious projects in the Kingdom. More details will be announced in due course.

A Memorandum of Understanding (MoU) to develop these projects was signed at Rawabi Holding in Al Khobar by Abdulaziz Al Turki, Group Chairman, Rawabi Holding and Nesma & Partners and Chairman of Magnom Properties and the architect Adrian Smith, in the presence of Othman A. Ibrahim, CEO, Rawabi



Photo credit: Magnom Properties

Holding, Vice Chairman of its Board of Directors and Vice Chairman of Magnom Properties; Nouf Al Turki, Vice President of Corporate Affairs, Rawabi Holding, Member of its Board of Directors and Member of the Board of Directors of Magnom Properties; and Maged Marie, CEO, Magnom Properties.

Hyatt announces the opening of Hyatt Regency Trivandrum

Kerala, India - Hyatt Hotels Corporation announced the opening of Hyatt Regency Trivandrum in Kerala. The hotel is the third Hyatt property in the state of Kerala following the opening of Grand Hyatt Kochi and Hyatt Regency Thrissur, and the sixteenth Hyatt Regency hotel in the country - a significant milestone in Hyatt's brand growth in the Indian market. Hyatt Regency Trivandrum is designed for business and leisure travelers to enjoy seamless and energizing experiences, borrowing inspiration from the rainforest, beaches and low coastal hills that are distinctive to the state of Kerala.

Spread across 2.2 acres, Hyatt Regency Trivandrum is in the cultural hub of the city — located at the southwestern tip of India — and will give guests access to well-known historic sites such as Kanakakunnu Palace, Napier Museum, Kuthiramalika Palace, Koyikkal Palace and the Vikram Sarabhai Space Centre. Guests at the hotel can also relax on the scenic backwaters of Kerala and a long



Evening view of Hyatt Regency Trivandrum façade. Photo credit: Hyatt Regency

shoreline with internationally renowned beaches that make this district a much sought-after tourist destination.

Commenting on the opening, Rahul Raj, general manager at Hyatt Regency Trivandrum, said, "The opening of Hyatt Regency Trivandrum marks an important step forward in Hyatt's brand expansion in India. The state's beauty makes it one of the most desirable for travelers in India, and at Hyatt, we are focused on strengthening our brand presence in locations where our guests like to travel. We're excited to serve guests and World of Hyatt members as we welcome them to Hyatt Regency Trivandrum."

Marriott International poised to expand Asia Pacific luxury hotel portfolio with 14 expected additional properties by end of 2023



W Sydney. Photo credit: Marriott International



JW Marriott Jeju Resort & Spa. Photo credit: Marriott International

Hong Kong – Marriott International, Inc. recently announced it expects to open 14 additional luxury properties in Asia Pacific by the end of 2023. The planned additions highlight the strategic growth of Marriott International's luxury hotel portfolio in the region, where it currently operates 156 luxury properties.

Across 13 countries and regions in Asia Pacific, Marriott International's portfolio of dynamic luxury brands continues to create bespoke experiences for today's luxury traveler in ever popular cities including Tokyo and Melbourne, and is ready to bring these experiences to emerging destinations such as Jeju and Jiuzhaigou. With a collection of iconic brands such

as The Ritz-Carlton, St. Regis, W Hotels, The Luxury Collection, EDITION, JW Marriott, and Bulgari, the company is set to meet the increasing demand for exceptional luxury travel experiences for our guests from all around the world.

"Today's luxury traveler is looking for authentic experiences that are personalized, thoughtful and uniquely meaningful," said Bart Buiring, Chief Sales and Marketing Officer Asia Pacific, Marriott International. "Our current portfolio of highly distinctive brands is well-positioned to meet the evolving needs of travelers, and these expected additions reflect our optimism for the future of luxury travel."



A Ritz-Carlton Reserve in Jiuzhaigou. Photo credit: Marriott International

Enabling Village wins the 2022 Urban Land Institute Global Award for Excellence



Photo credit: Enabling Village

Singapore – Enabling Village, the first inclusive community space in Singapore with a strong focus on training and employment for persons with disabilities, received the 2022 Urban Land Institute (ULI) Global Award for Excellence at a ceremony graced by Minister for National Development Mr Desmond Lee, on 11 November 2022.

Developed and managed by SG Enable, Enabling Village is recognised with five other projects from around the world – such as Essex Crossing (United States) – as winners of the 2022 ULI Global Awards for Excellence. These winners were selected from a pool of 26 global finalists who had first won in the highly competitive regional competitions that saw a total of 152 submissions. Earlier in June 2022, Enabling Village was selected as one of 13 winners of the Asia Pacific edition of the Awards, and it was the only winning project from Singapore.

The Global Awards jury lauded Enabling Village for creating a dedicated and supportive environment for people with disabilities to receive job training and education. "The project demonstrates a successful model for integrating disability services and accessible design into an existing community," it said.

"The six developments from around the world serve as replicable models for how developers across a diverse set of circumstances can successfully transform their communities for the better. These projects go above and beyond in furthering ULI's mission worldwide," said Professor Khoo Teng Chye, chair, ULI Asia Pacific. "I am impressed by Enabling Village, the first-of-its-kind development in Singapore that fosters an inclusive community by welcoming people of all abilities and deepens integration with the local neighbourhood."

Ms Ku Geok Boon, CEO of SG Enable, said: "We are honoured to have won such international recognition. We have catalysed greater disability inclusion efforts beyond Enabling Village through

impactful innovations in early childhood education, sports and wellness, and inclusive training and employment. With these successes, we are expanding Enabling Village to prototype more social innovations to address the post-18 cliff effects. We seek partners and supporters to join us in Building Dreams and Enabling Lives."

Enabling Village is expanding to do more and better for persons with disabilities. The four-storey extension, to be completed by 2024, will be a model for inclusion and innovation. It is part of the larger strategy to garner corporate and community support to address the post-18 cliff effects. This will be done through the 4Es: Enable, Enterprise, Envision and Engage.

To mark the start of the development of the Enabling Village extension, Minister Desmond Lee launched the Design Playbook for Inclusive Spaces. The playbook is developed for businesses and establishments looking to make their spaces more inclusive.

Merex Investment introduces J1 Beach – An internationallyrenowned beach resort as part of La Mer South redevelopment

Dubai, United Arab Emirates — Asset management firm Merex Investment has announced a redevelopment of La Mer South, which will be named J1 Beach, with the addition of three brand new seaside experiences — Gigi Rigolatto, Bâoli and Sirene Beach by Gaia — and 10 premium licensed restaurants that visitors can enjoy from sunrise to sunset.

J1 Beach will become a flagship beach resort destination and the first-of-its kind in the region, offering uninterrupted sea views, premium F&B offerings and a cluster of high-end operators in the heart of Jumeirah, Dubai.



Photo credit: Merex Investment

The redevelopment will ease connectivity

for visitors through valet services and ample parking, golf cart shuttle services and green pathways, which are shaded in the day and illuminated at night to create an ideal ambience for beachgoers. Visitors can even arrive by sea via the framed seaside reception.

The new restaurants for the J1 Beach development will make their debut in the UAE and will be completely licensed with day-to-night trade.

The area will be closed while construction on the destination takes place and is scheduled to open for the public by the end of 2023.

Pan Pacific Orchard introduces first look into flagship luxury urban oasis

Singapore – Pan Pacific Hotels Group, a member of Singapore – listed UOL Group Limited, introduces a new luxury destination hotel in the iconic commercial district of Orchard Road. Opening in May 2023, Pan Pacific Orchard, Singapore will be the Group's next flagship hotel, presenting 347 keys within lush, open–air architecture. Its prime address on Orchard Road places it at the doorstep of Orchard station and shopping malls such as Palais Renaissance, ION Orchard, and Isetan Scotts.

Designed by WOHA Architects, Pan Pacific Orchard embodies luxuriant tropical hospitality that will add a green spectacle to Singapore's prime shopping belt. It will showcase four high-volume, open-air terraces — Forest, Beach, Garden and Cloud — brimming with more than 7,300 square metres of foliage that covers more than 200 percent of the hotel's land area. Every guest room affords an inimitable view of either terrace landscape or the cityscape of Singapore.

Marcel NA Holman, General Manager of Pan Pacific Orchard and Vice President of Operations for China, Japan and Indonesia, shared: "Pan Pacific Orchard will bring the new vision of Pan Pacific Hotels and Resorts to life, elevating the brand into graceful luxury. With sincere service from the heart, we deliver a brand-new luxurious experience for discerning



Photo credit: WOHA

travellers and transform the landscape of Singapore's iconic Orchard Road. Our passionate team looks forward to welcoming guests with our sincere and graceful hospitality, creating memorable experiences for all."

HDB Awards 2022: 22 projects recognised for excellence in design, construction and engineering

Singapore - A total of 22 HDB Design, Construction and Engineering Awards were presented in 2022 to architectural and engineering consultants, as well as building contractors for projects that have demonstrated excellent design, engineering and construction. Among them, all winning projects of the HDB Construction Award under the Housing Category also attained the CONQUAS Star, the highest CONQUAS rating conferred upon projects with scores above 95 for quality workmanship. This marks the first time that all projects under the Housing Category have attained CONQUAS Star, and is testament to the significant strides in the construction quality of HDB flats over the years. Minister for National Development Mr Desmond Lee presented the awards to the winners at the HDB Awards ceremony on 11 October 2022.

HDB's Chief Executive Officer, Mr Tan Meng Dui said, "Congratulations to our award winners for pushing new frontiers in providing well-designed and quality homes. This has enabled us to continually raise the bar for construction quality, as well as design and engineering excellence in public housing, even amidst the ramp-up in HDB's building programme and the challenges brought about by Covid-19 over the past two years. With the steady recovery of the construction industry, we will continue to work in close partnership with our industry partners, as we catch up on construction delays and deliver more homes to Singaporeans."

Among the 12 HDB Design Award recipients, Northshore StraitsView by CESMA International Pte Ltd stands out for its strong design identity and distinctive architectural features. Situated in Northshore district, Punggol's seafront housing district, Northshore StraitsView was designed to capitalise on its waterfront location to provide residents with resort-style homes. Drawing inspiration from the picturesque sceneries found in Chinese landscape paintings, the consultants designed the 26-storey blocks to emulate undulating mountains embracing an urban oasis.

To optimise sea views from the units,



Facing the Punggol seafront, Northshore StraitsView was designed to emulate undulating mountains, creating a distinctive skyline. Photo credit: Photographer Mr. Henry Lim

the blocks have been carefully angled and arranged rhythmically in a stepped-down manner. This helps to create a more inviting promenade and welcoming entrance to the development. The colour palette comprising soft, natural blues paired with white, as well as the use of "wave-like" design elements in its common spaces and outdoor decks, further add to the precinct's nautical theme.

Lush greenery is weaved throughout the development, including its central green, roof gardens and sky terraces. In the heart of the precinct above a central carpark is a multi-tiered environmental deck equipped with fitness corners and playgrounds. Hidden from view along the promenade, it creates an intimate communal enclave overlooking the waterfront, where residents can enjoy outdoor activities in privacy.

Also clinching the HDB Design Award for its innovative and all-encompassing design approach is the mixed integrated developmentatNorthshoreResidencesI& II and Waterfront I & II @ Northshore, HDB's first smart and sustainable precincts. Designed by HDB's in-house team of planners, architects, and engineers, the development comprises some 3,100 dwelling units in four residential projects (Northshore Residences I & II and Waterfront I & II @ Northshore), and is integrated with a neighbourhood centre (Northshore Plaza I & II). The development incorporates sustainable solutions, smart technologies and biophilic strategies to bring about a better living environment for its residents.

The residential blocks are characterised by their staggered building heights and sky gardens, creating a distinctive variegated skyline while maximising seaviews for residents from their units. Each residential block features a double volume void on the ground floor that allows for better wind flow and ventilation.

A community spine - a two-storey walkway that interlinks all the blocks and runs seamlessly from the Samudera LRT station to the Coastal Promenade provides residents with convenient and sheltered access to the waterfront and amenities within the neighbourhood centre. From this community spine, landscaped decks with facilities such as large common greens, children's playgrounds, and fitness corners, spread out into the residential precincts. These shared spaces offer opportunities for community bonding, enabling residents to enjoy a holistic living experience with seamless connectivity to a plethora of social and communal amenities and nature at their doorstep.



A unique waterfront living experience that is close to nature in Punggol Northshore. Photo credit: HDB

Commenting on the designs of the housing projects that have garnered the HDB Design Award, Ar. Look Boon Gee, Managing Director of LOOK Architects Pte Ltd and Jury member for this year's HDB awards said, "The projects showcase a broad variety of design approaches, and employ different types of innovation in incorporating greenery and sustainability, as well as social integration. This is commendable, and I encourage architectural consultants to continue to push the frontiers in public housing design.

Institution of Engineers, Singapore launches 'IES Green Plan 2030' – An initiative to advance Singapore's sustainable development goals



The IES Green
Plan 2030 was
officially launched
by Ms Grace
Fu, Minister for
Sustainability and
the Environment.
Photo credit: IES

Singapore – The Institution of Engineers, Singapore or IES has launched the 'IES Green Plan 2030' – a slew of green initiatives to support Singapore's sustainable development imperative.

The IES Green Plan 2030 was launched at its 56th Annual Dinner held on 17 January 2023 at Marina Bay Sands, by Ms Grace Fu, Minister for Sustainability and the Environment, and will help to strengthen the nation's engineering capabilities to develop sustainability solutions to mitigate the impact of climate change and public health threats by aligning with the five key pillars of the Singapore Green Plan 2030 – City in Nature, Energy Reset, Sustainable Living, Green Economy and Resilient Future.

IES has laid out concrete engineeringcentric action plans from 2023 to 2030 to support the Singapore Green Plan 2030. A key element of the plan is to equip Singapore's engineers sufficiently to create new possibilities and value opportunities for the society, economy and environment, thus capitalising on the ingenuity inherent in the discipline to make use of technology to facilitate Singapore's transformation into a climate-resilient nation-state.

In support of the focus on upskilling engineers in this space, IES has partnered Skills Future Singapore (SSG) to release the Jobs-Skills Quarterly Insights (JSQI) in conjunction with the launch of the IES Green Plan. The publication highlights a suite of green skills highly sought after by employers from engineers for work related to sustainable practices. The top identified skills are energy management and audit, environmental sustainability management and sustainable engineering.

JSQI also observed an emergence of

newer "green" roles in areas such as solar PV engineer and energy sustainability, requiring engineers to be well-versed in skills for the development of evolving clean technologies, harnessing clean energy, managing environmental sustainability, as well as in Internet of Things application, programming & coding, and big data analytics.

With the support of SSG and other partners, IES will continue to empower engineers through continuous skills development as well as professional certification programmes such as the IES Chartered Engineering certification schemes, and courses offered by industry bodies and institutes of higher learning (IHLs).

"Climate change is an existential threat to humankind but acknowledging the need to act is not good enough. We must act immediately. As engineers, we can contribute to the goals set in the Singapore Green Plan with our engineering expertise, innovations and creative solutions. It is with this objective in mind that IES has taken the initiative to develop the IES Green Plan 2030 in support of Singapore's sustainability journey. It is a bold, yet necessary plan to act as a springboard for future green initiatives and inspire more engineers to step forward to contribute towards Singapore's ambitions of a green future," said Mr. Dalson Chung, President of IES.



Mr. Dalson Chung, President of IES. Photo credit: IES



Ms Grace Fu, Minister for Sustainability and the Environment. Photo credit: IES



CHYBIK + KRISTOF complete research centre in collaboration with KOMA MODULAR

Prague, Czech Republic - CHYBIK + KRISTOF (CHK) announced the completion of the newly designed Modular Research Centre with KOMA Modular, a Czech module manufacturer, located in Vizovice, Czech Republic, Latest in a series of collaborations, the recently completed 170 metres research centre acts as a think-tank an innovative space to challenge and expand on existing notions of modular construction. Situated at the edge of the KOMA complex, the new research centre carefully integrates the factory into its surrounding environment while creating a large semi-public social gathering square contributing to the employees' liveliness and progressive working culture. The one-storey building allows passers-by to view the factory from the street level, further enhancing an accessible, transparent, barrier-free area.

The partnership between CHK and KOMA began in 2014 by creating a master plan for the entrance and public

area consisting of three modular buildings. The master plan demonstrates a strategic configuration design of the factory's



Photo credit: Jesús Granada



Photo credit: Jesús Granada

entrance, expanding on public space, in which each structure unveils modular versatility. Following the completion of the Modular Cafeteria in May 2014, CHK designed the Czech pavilion at EXPO 2015 in Milan, which was later converted into an office building for KOMA. The newly completed research centre (2022) presents the third and final modular design, rooted in the concept of rotated containers functioning as columns, enabling an architectural malleable space to further expand on the notions of modular architecture.

Set to become an innovation hub for the factory complex to develop and explore new undiscovered building methods with modules, the research centre forms an adaptable system that can meet multipurpose needs. Acting as an idea generator, the building is an important meeting place for all professionals to create innovative and special products, consequently becoming a default gathering point and evolution centre for the future of modularity. Keeping in mind the structure's principal function, it is further underlying the vital element of transparency reflected in its building. Creating a complex that is open and welcoming to the local community confidently reflects on the principle of new concepts envisioned to form inside the rotated containers of the building.

Created as a prototype of a new and adaptable modular system, the research center underlines the studio's dedication to expanding the limitations of modular architecture and engaging in supporting local communities.

Foster + Partners completes new DJI Sky City in Shenzhen

London, UK – Foster + Partners has completed the new headquarters for DJI, the world's leader in civilian drones and creative camera technology. Located in the Nanshan District in southwest Shenzhen, China, the two towers – 44 and 40 storeys respectively – are set to become the 'heart of innovation' for the company and form a creative community in the sky.

Frank Wang, Founder and CEO of DJI commented: "It took us six years to build the new DJI Headquarters, which is the result of the wisdom and determination of DJI and our valued partners. We see Sky City as a product unlike any we've evermade: our real home. At the beginning of a new era for DJI, we pay great attention to the growth and well-being of every employee. This starts

with a work environment that is both practical and delightful. I hope that Sky City will inspire all of us to work together and scale new heights of progress, wisdom, and possibilities to develop solutions that benefit society."

Lord Foster, Founder and Executive Chairman, Foster + Partners, said: "Drone technology has changed the way we experience the world around us, while pushing the boundaries of aerial possibilities. I have enjoyed using DJI's products since the beginning, so we are delighted to have partnered with DJI in creating their new headquarters in Shenzhen, which will be the company's premier centre of research and innovation."

Across the two towers, office and research spaces are arranged in floating volumes cantilevered from central cores by large megatrusses and circular profiled steel suspension rods. The first use of an asymmetrical suspension steel structure in a high- rise tower of this scale, the innovative structure reduces the need for columns, thus creating impressive and uninterrupted office and research spaces. It also allows for quadruple-height drone flight testing labs that are unique to DJI. These labs are expressed externally through the unique V-shaped trusses that give the towers their distinctive identity, against the backdrop of the city's skyline.

The building's functions include offices, research labs, test flight area, staff training, and public facilities. At 105 metres, the towers are linked by a 90-metre-long suspension sky- bridge, a lightweight element that creates an elegant connection between the two volumes. At the top of the



Day time north aerial view of DJI HQ. Copyright holder: Fangfang Tian

floating volumes, skygardens provide private outdoor spaces for staff.

At ground level, the lifted volumes draw the surrounding greenery into the base of the buildings via a sloping green podium garden that is open to everyone. The ground floor also features public facilities such as a community healthcare centre. In this way, the ground level is designed to be open and inviting — a gesture of DJI's respect towards their urban surroundings and its contribution to the local community.

The innovative structure seeks to redefine the design of tall buildings in the region, creating a prominent new landmark that celebrates Shenzhen's place as a UNESCO City of Design.

The design of the floorplate maximises daylight and views, improving comfort levels while reducing energy consumption. The innovative TWIN lift system reduces the number of shafts required and increases usable office floor area. Its intelligent control system also allows reduction of energy consumption during off-peak periods. Rainwater is harvested and stored for re-use, and greywater is recycled for irrigation. The landscaped areas absorb rainfall and act as buffer during monsoon season.

Grant Brooker, Senior Executive Partner, Foster + Partners, said: "We have worked closely with DJI — world-leading pioneers in innovative drone technology — to design a workplace that is expressive and emblematic of their creative ethos. The building has a unique structure with suspended workspaces floating high above the ground, creating a series of column-free studios that enable the design teams to develop, test and showcase their amazing range of products."



Theunis Bridge Merksem wins the 2022 Architecture MasterPrize



Photo copyright: ZJA

Amsterdam, The Netherlands - The Theunis Bridge that links Merksem with Deurne in Belgium has been awarded the prestigious Architecture MasterPrize for 2022. Commissioned by De Vlaamse Waterweg, architectural studio ZJA designed the new Theunis Bridge over the Albert Canal in collaboration with Arcadis, Sweco and OKRA Landscape Architects. A steel bridge in three parts, with an increased clearance height, it takes cyclists, cars and trams pleasantly and safely to the other side as if along a boulevard. With its dark pillars, dazzling white towers with an open structure and meticulous detailing, the new bridge is a striking presence in the urban landscape of Antwerp. The Theunis Bridge has won the award in the 'Infrastructure' category. The Architecture MasterPrize, an international American architecture awards, is regarded as a leading award in architecture.

Elegant eyecatcher over the Albert Canal

The new Theunis Bridge actually consists of three steel bridges side by side – two traffic bridges and a tram bridge in the

middle – with the daylight having free play between them. The bridge is striking for its dark substructure and its white, open superstructure.

Ralph Kieft, architect and partner at ZJA, says, "We are extremely proud of this prestigious award for the Theunis Bridge. The V-shaped, upwardfolded columns of the structure are a characteristic presence above pillars reminiscent of bridge towers or harbour cranes. The silhouette of the V-shape is asymmetrical and dynamic. Broad bicycle paths and footpaths hang like balconies on the outer sides of the bridge, giving cyclists and pedestrians the best view of the Albert Canal and its surroundings. The open shape of the iconic towers contributes to the effect, while the space under the bridge has become far more attractive and hospitable."

Enjoyable to linger under the bridge

The canal banks and the passageway under the bridge have undergone a metamorphosis, resulting in a safe and pleasant urban space. The introduction of wooden seats, greenery and good lighting below and beside the bridge has

created a safe, enjoyable place where you can sit on a bench and enjoy the water and the passing ships. This makes the new Theunis Bridge an improvement not just for shipping but for its users and its surroundings. A flowing link with a striking appearance that sets the tone for the further urban development and redevelopment of the area.

Increased clearance height and widening of the Albert Canal

The new Theunis Bridge is not merely an attractive link between opposite banks of the Albert Canal, it also has an increased clearance height. Carrying almost 40 million tons of goods per vear, the Albert Canal is Flanders' most important waterway. Container traffic in particular has grown strongly over recent years, but the low headroom of the old Theunis Bridge and the fact that the Albert Canal is at its narrowest here created a bottleneck. The new Theunis Bridge has a clearance height of 9.10 metres and the canal has been broadened to 63 metres wide. Inland vessels can now pass through safely even with containers stacked four high.

Graphisoft to acquire Abvent French and Swiss Archicad business units from AV-Tech Group

Budapest, Hungary — Graphisoft has announced that it has signed a Sale and Purchase Agreement with AV-Tech Group to acquire Abvent's Archicad business units in France and Frenchspeaking Switzerland. The acquisition is another milestone in Graphisoft's journey as a leading global player in the AEC industry by investing in the growth of two of Europe's most influential markets.

Abvent has been Graphisoft's valued distributor in France since 1985 and in French-speaking Switzerland since 1991 and has built successful businesses in both countries, offering award-winning software solutions and high-quality



support and training to thousands of architects.

"Abvent has built an impressive business based on local market knowledge and deep relationships with users by offering outstanding service and support," said Huw Roberts, Graphisoft CEO. "This acquisition strengthens our position in these already highly successful French-speaking markets by integrating Abvent's many years of deep local experience with Graphisoft's global go-to-market expertise and best practices to add even more value for architects in the region," he added.

"This is exciting news for both companies," said Xavier Soule, AV-Tech Group CEO. "We are proud of the work we have done in France and Switzerland to grow the use of BIM and are confident that our customers will greatly benefit from Graphisoft's hands-on approach to support, services, and long-term vision and mission in the AEC industry."

XPENG showroom in Copenhagen designed around future mobility

Copenhagen, Denmark – This year, the new European flagship store of XPENG Motors opened its doors in Copenhagen. Inspired by XPENG's futuristic concept of intelligent mobility and technology, Dutch architecture firm HofmanDujardin designed a unique showroom using fluent lines and soft shapes.

The showroom creates a universe that offers a strong customer experience. The brand's drive to create the future of innovative mobility is reflected in the interior concept. To bring in a feeling of outer-space, the interior features several floating elements, like round shaped lighting disks, back-lit hanging showcases and a visually elevated reception desk.

Located in the Axel towers designed by Lundgaard & Tranberg Arkitekter in the centre of Copenhagen, the store features a large curved window towards the city. Showcase of new electric cars by the brand including a futuristic flying vehicle is the focal point of design. These objects are further accentuated by giant hanging lighting disks, that make them visible from the street.



- Architect HofmanDujardin

- Photography ©HofmanDujardin, photographer Anne Timmer

The interiors follow the building's soft shapes and emphasise a sense of movement and spatial continuity. An embracing contour forms a naturally curved back wall of the store. Here a second layer of experience is introduced that provides more information about the brand, products and finish options, with both physical and digital elements.

The store finds a balance between minimalistic sophistication and a casual approachable atmosphere, with close attention to details and a richness in material combinations. The palette combines natural materials like terrazzo and wood with metals and diverse textiles. An expressive feature are the art installations made from perforated steel sheets. Made in different shades of brass, they reflect an abstraction of the colourful Danish cityscapes.



Crystal Lagoons arrives in India with 100 Public Access Lagoons[™] and real estate projects

Miami, USA — Crystal Lagoons has broken its own record, this time, signing its biggest ever contract to bring idyllic beach life to the world's second most populous country, India. The contract includes 100 Public Access Lagoons™ Projects, also called PAL™ developments, and real estate projects for a maximum period of 20 years.

The deal covers 26 of India's 28 states and was signed with Champions Group, one of India's and Asia's leading conglomerates with businesses interests in the real estate, infrastructure, hospitality, automotive, finance, medical products, technology, media, fashion and lifestyle industries. Hema Malini Nidamanuri, CEO of Champions Group, was named as one of the "Top 50 CEOs" by CEO Magazine.

Through its partnership with Crystal Lagoons, Champions Group seeks to set up a new real estate portfolio, with projects designed for the high-income segment that involve paying a membership fee, something akin to a traditional country club. These projects will then be developed to cover other market segments.

These complexes will provide a source of entertainment in a country that culturally values water activities in cities. In fact, more than 80 percent of India's population is Hindu, a religion that considers water to be a vital element of life.

With these projects, inhabitants of coastal and inland cities including New Delhi, Mumbai, Bangalore, Calcutta, Goa, Hosur, Chennai and Hyderabad will have the opportunity to experience a tropical paradise on their doorstep for the price of an entrance ticket.

The developments will start in the south of the country, which attracts most tourists and has a tropical climate. It will leverage the sustainable aspect of Crystal Lagoons® technology, which can make use of any type of water, consumes 30 times less water than a golf course and only half that of a park of the same size

The projects include space for hotels, multi-family areas, stores, restaurants, recreational and entertainment activities, commercial and leisure infrastructure around the crystalline waters. The PAL™ developments will be

open all year round and are expected to welcome over 500,000 visitors annually, always being mindful to not overcrowd the beaches, maintaining a minimum of 3-4 square meters per person.

"This agreement to develop 100 PAL™ and real estate projects is proof that our turquoise-water lagoons concept works, particularly the public access model. It also demonstrates why PAL™ projects make up 800 of our 1,015 Crystal Lagoons resorts worldwide, at different stages of development," said Alastair Sinclair, regional director of Crystal Lagoons.

"PAL™ developments provide a safe and inclusive way to enjoy the water and change people's lives in cities. It's the same as what happened 200 years ago, when the first urban parks were created meaning the general public didn't have to travel to a forest on the outskirts of the city to connect with nature. Today, every city in the world has parks and green areas. The same phenomenon is occurring with public access complexes, which integrate the concept of the ocean and the beach into city design," Sinclair said.



Photo credit: Crystal Lagoons

Goettsch Partners completes Chicago's healthiest office tower

Chicago, USA - Global architecture firm Goettsch Partners (GP) has completed 320 South Canal, Chicago's healthiest office tower and the latest in a series by the same architect, developer and contractor team that focus on tenant health and wellness. Located across the street from Chicago Union Station with close connections to transit and the major expressways, the 51-storey tower totals 1,740,000 gross square feet and includes a conference centre, fitness centre, restaurant, to-go market, branch bank, and a cocktail lounge in an adjacent structure, as well as parking for 324 cars/electric vehicles and 114 bicycles. The 2.2-acre site also features The Green at 320, one of the largest privately owned public parks in Chicago. The project was developed by Riverside Investment & Development with Convexity Properties and built by Clark Construction. The same team of GP, Riverside and Clark also delivered the city's Bank of America Tower in 2020 and 150 North Riverside office building in 2017. All three 50-story towers are certified or precertified LEED Gold, WELL Platinum and WiredScore Platinum. Together, they total nearly 5 million square feet completed in the last 10 years.

Well before the Covid era, GP held a longstanding commitment to tenant health and wellness. At 320 South Canal, design strategies emphasised improving occupant wellbeing, with the building achieving LEED Gold certification, WELL Platinum precertification and WiredScore Platinum certification. The tower incorporates innovative technology to maximise occupant health, mitigate risk related to harmful environmental factors, and enhance tenant operational efficiency. Selectfeatures include advanced air monitoring and air filtration systems, bipolar air ionization, fresh air delivery that is six times the national code standard, a tenant engagement app that provides a real-time display of air quality metrics, antimicrobial fixtures, and touchless technology throughout, as well as access to outdoor terraces for fresh air and the many outdoor spaces and activities provided by The Green.

Designed as a stepped, three-tiered building, 320 South Canal is oriented in the north-south direction along the east side of its site. The east face of the building aligns with the property line, reinforcing the urban street wall defined by the historic Union Station headhouse on the adjacent block. The three setbacks reflect the internal organisation of the building, with efficient, column-free floor plates that cater to a variety of tenants. Large terraces at each setback offer outdoor amenity spaces with expansive views of downtown. The building's subtly folded façade creates an ever-changing texture that reinforces the verticality of the building. At street level, east and west façades express V-shaped structural transfers that open up the ground floor. The resulting effect is that the park becomes an integral part of the building, and the building serves as an extension of the park.

"It is our belief that how a building meets the ground is more important than how it meets the sky," says James Goettsch, FAIA, Chairman and Co-Design Director of GP. "It is where people engage and interact with the building, not just the tenants but the general public."

Early in the planning process, it was decided the tower should

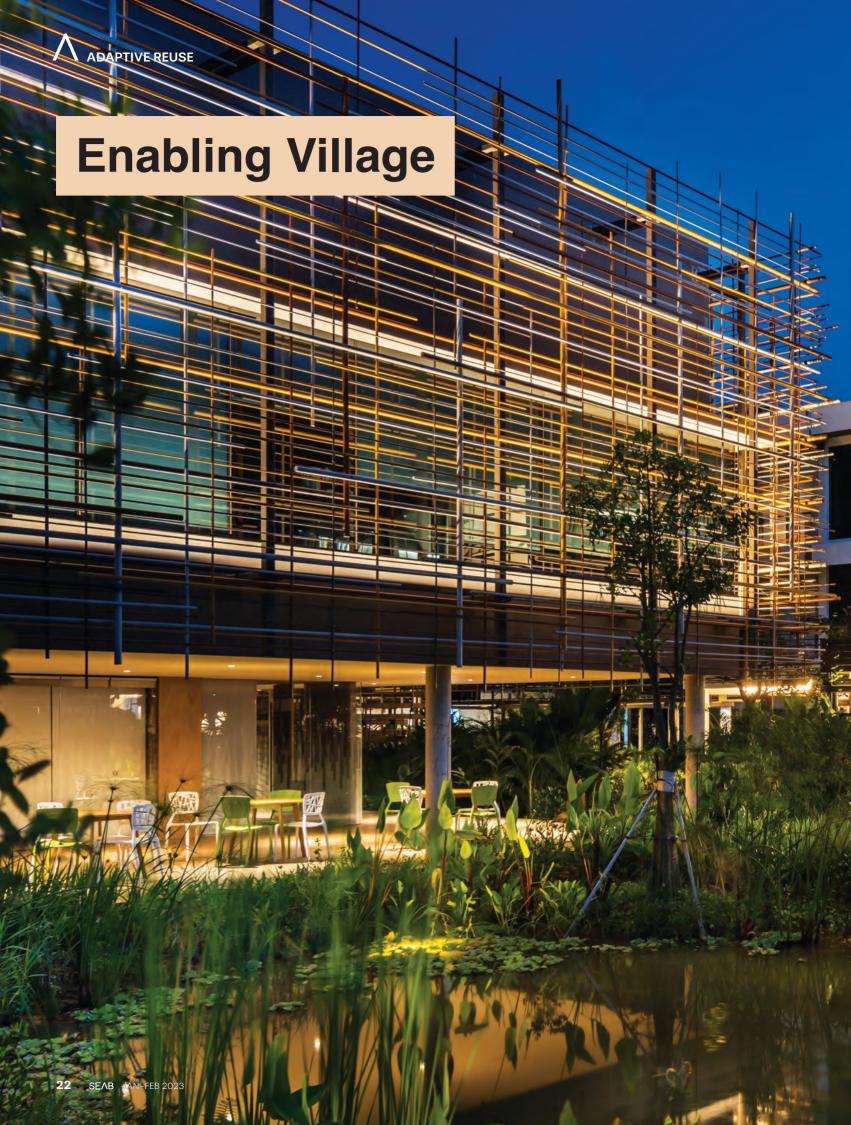


Photo copyright: Nick Ulivieri Photography

be taller with a smaller footprint, allowing most of the site to be dedicated as a park. The 1.5-acre park space, designed by GP in collaboration with landscape architect Confluence, is organised around a 10,000-square-foot oval-shaped lawn. A curved path defines the main pedestrian circulation from the northeast to southwest corners of the site, promoting connections between the station and the evolving West Loop. In addition to the central lawn, the park includes a variety of smaller spaces that, together, allow for a variety of outdoor activities, both programmed and spontaneous, as well as pop-up retail space at the north side – all set against the backdrop of the iconic Union Station headhouse.

"Within The Green, the traffic and noise of the city are tuned out, and the park becomes an urban oasis, says Joachim Schuessler, principal at GP. "It was important that The Green feels welcoming to building tenants as well as the general public, allowing people to enjoy the park through all times of the day and in all seasons."

The 320 South Canal building is anchored by Montreal-based BMO Financial Group as their new U.S. headquarters. Other tenants include law firms Chapman & Cutler and Faegre Drinker, as well as recently signed tenants Skadden Arps and the National Futures Association, among others.







Nest block and garden cabanas visually anchors the biopond. Photographer: Patrick Bingham-Hall

ocated in Redhill in Singapore, the Enabling Village project is a demonstration of heartland rejuvenation and community building, through Masterplanning and the adaptive reuse of Bukit Merah Vocational Institute built in the 1970s.

The property was re-purposed as the Enabling Village – an inclusive space that integrates education, work, training, retail and lifestyle, connecting people with disabilities and the society.

Before re-development, the property did not contribute to the neighbourhood. The Masterplan by WOHA Architects reimagines the Enabling Village as a park/garden destination, and is designed as an integral part of the neighbourhood's pedestrian network.

The design scope includes architecture, interior design, signage, lighting, art and landscaping to deliver a holistically integrated environment. The buildings are re-named as "Nest", "Playground", "Village Green", "Hive", "Hub" and "Academy" – based on their characters and programmes. These are seamlessly connected by ramps, landings and lifts.

The new Nest building is anchored at the main pond and serves as a beacon, drawing pedestrian flow through the new linkways. The architectural expression and finishes are continued at the



Verandah with a lattice pergola overlooks the biopond, serving as a garden pre-function area to Hub. Photographer: Patrick Bingham-Hall



Amphitheatre serves as a multi-purposed common space incorporating an accessible route. Photographer: Patrick Bingham-Hall

existing buildings as facade, canopies and surfaces. A timber terrace is laid over the courtyard at the Playground, stepping down as an amphitheatre with integrated ramps. The terrace continues under and past the building as a balcony overlooking activity islands and as a garden trail connecting to the adjacent housing precinct. Pre-cast concrete pipes are inserted below the amphitheatre as resting nooks. The open space between the Village Green and the Hive is reactivated as a garden yard with repurposed sea containers as bridges, follies and meeting rooms loosely scattered with recycled oil drum planters. 'Up-cycling' continues as interior design features in the Art Faculty and Hive.

Wayfinding is developed as a series of touch-points at entries and strategic junctions to assist with orientation and navigation. Each building is identified by a feature wall with coloured graphics. External lighting is designed to give a serene park ambience. Building facades, drop-offs, cabanas and walkways are accentuated as beacons and connectors in the park. Art is integrated into the garden with building-scale murals, incorporating artwork by autistic artists.

Landscaping and water gardens are designed with a variety of native species, scales and colours, complementing the conserved trees to attract biodiversity and support ecosystems. Verandahs and cabanas extend out from passages as outdoor meeting spaces, bringing nature closer to people.

The Enabling Village champions sustainability and sociability by promoting the learning, bonding and healing of people with varying abilities within a biophilic environment. This creates an inclusive space that enables and values everyone.



Re-purposed containers are inserted into the Art Faculty as visual beacons accommodating Cafe and Information Point. Photographer: Patrick Bingham-Hall

PROJECT DETAILS

PROJECT NAME: Enabling Village **PROJECT LOCATION:** Redhill, Singapore

CLIENT: SG Enable Ltd

ARCHITECT: WOHA Architects Pte Ltd **SITE AREA:** 31,605.7 square metres

CONSTRUCTED AREA: 15,025 square metres (excluding

gardens)

DESIGN INCEPTION: February 2014

YEAR OF CONSTRUCTION TO COMPLETION: September

2014 to November 2015



The Grandstand at Nest block connects the 2 storeys as an informal amphitheatre space. Photographer: Edward Hendricks



The green roof of garden cabanas and surrounding landscapes form a verdant backdrop to the office's living room at Nest block. Photographer: Edward Hendricks



A re-purposed container is used as a display portal and ramp to connect existing difference in levels at the Art Faculty. Photographer: Edward Hendricks



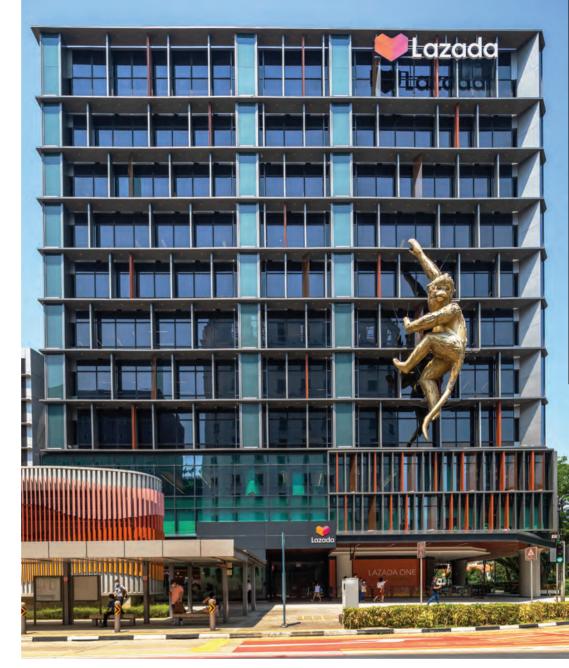




↑ ADAPTIVE REUSE

efurbishing the 1989 development at Bras Basah, Singapore for joint owners of the building Chelsfield Asia and ARA, DP has transformed and redeveloped it into a new and unique office space that caters to the needs of the new economy. The architectural scheme re-envisioned its entire site as a vibrant and thriving scene that not only reflects but also responds to the idiosyncratic blend of hospitality, art and commerce in its locale. This is achieved through urban renewal strategies that tackled three key areas - circulation, connectivity and context. To improve circulation, the ground floor has been designed with careful consideration to pedestrian movement and traffic flow. This in turn, generates better connectivity between the office building and its adjacent MRT stations thereby, rendering it more accessible.

Along with this, the refurbishment of the development also presented the opportunity to revitalise existing commercial spaces on the ground floor as well as to innovate the standard workplace design. The introduction of pop-up showrooms on the lower levels and dynamic office spaces above serve to better draw in and cater to new







economy tenants such as Spotify and Lazada One.

The process of transforming the development was a balancing act between the new and the old as the design team sought to keep the original building and its architectural character. By reusing the existing curtain wall structure, DP was able to minimise construction waste. Then, to update its exterior for greater contemporary appeal, the design scheme cladded the round columns with glass and introduced tritoned vertical fins to the façade.

These detailing forms a rhythmic pattern that creates visual dynamism while making for practical addition that furthers DP's sustainable design agenda; effectively reducing on-site urban heat island effect by 40 percent and achieving an optimal EETV performance rate of 45W/square metres for greater thermal comfort which reduces the cooling load and operational carbon of the building. For its sustainable design interventions, the project was accorded Green Mark Platinum by Singapore's Building and Construction Authority.

Cleverly conceived, DP's architectural scheme pilots a new hybrid typology in which commerce, office and lifestyle spaces are co-located within and synergised into one volumetric zone. Thus set in dialogue with its urban surroundings, the development is poised to attract new economy businesses, facilitate greater creative exchange and revitalise Bras Basah.

PROJECT DETAILS

PROJECT NAME: Lazada One PROJECT LOCATION: Singapore CLIENT: Chelsfield Asia and ARA ARCHITECT: DP Architects

GROSS FLOOR AREA: 29,050 square metres

YEAR OF CONSTRUCTION TO COMPLETION: 2020 to 2022 PHOTOGRAPHY CREDIT: Rory Daniel, courtesy of DP Architects





Restoration of St James Power Station





ADAPTIVE REUSE

he St James Power Station (SJPS) in Singapore is a great example of an adaptive reuse project. Located on Keppel Road near the entrance of Sentosa Island, the building is Singapore's first power station built in 1926.

SJPS was gazetted as a National Monument in 2009 and has been part of Mapletree Investments' portfolio in the HarbourFront Precinct since the establishment of Mapletree in 2000.

As part of Mapletree's strategy for the HarbourFront Precinct which lies at the heart of the Greater Southern Waterfront, Mapletree embarked on the execution of the addition and alteration works for SJPS in 2018, with the preservation of the historical architectural elements of

the iconic monument integrated with modern building technologies.

New floating floor slabs were sensitively inserted at selected locations within the power station to introduce additional space for modern office use while preserving the original spatial quality. Large atrium spaces were also created at various locations to accentuate the large voluminous spaces. Key architectural elements including the fair-faced brick façade, two chimneys, mild steel windows and the steel frame structures were painstakingly restored to showcase the charm of the architecture.

The result was the creation of a one-of-a-kind experience and inspirational ambience suited for the best-in-class users.

The newly refurbished SJPS also houses a heritage gallery in one of its distinctive chimneys and a heritage trail featuring maritime artefacts around the monument. The SJPS Heritage Trail and Gallery reflect the nation's history as a trading hub, its rich heritage and progressive transformation over the years into a world-class city centre.

Mr Hiew Yoon Khong, Mapletree's Group Chief Executive Officer said, "It is an exciting journey for Mapletree to unfold the next chapter of the iconic national monument, St James Power Station. Our efforts to restore and revitalise the historic building through adaptive reuse gives SJPS a new lease of life as a centre of innovation. The heritage gallery will showcase the rich



Fair faced brick wall

and fascinating history of St James Power station and its role in the evolution of power generation in Singapore."

For its exceptional restoration works, the building won a URA Architectural Heritage Award ("AHA") award in Singapore.

Second round of restoration works

For the latest round of restoration works. extensive research and conservation works were carried out on the key architectural elements.

The façades are constructed of a self-supporting brick envelope in a fair-faced finish. They were produced at Alexandra Brickworks, the first brickyard in Singapore to make bricks with modern machinery on a large scale.

Steam cleaning was conducted on the entire building to remove the stubborn black soot accumulated on the surface. Cracks were also repaired using different methods per the severity of the damage, while incompatible latter-day patches were carefully repaired or replaced.

The historic steel elements, including the steel beams, columns and roof trusses in SJPS were imported from England in the 1920s. During the restoration, the steel elements were retained as much as possible through the rust removal process and the application of a protective process for preservation.

Originally constructed in mild steel back in 1920s, the façade windows have been replaced with aluminium profiles over the years. The windows have been restored to mild-steel to match the original profiles but with modifications to meet today's environmental standards like acoustic and thermal insulation required of modern office space.

The façade openings were carefully documented and reinstated according to archival photographs and records. Historic timber doors and windows were removed and carefully restored off-site.

Some façade elements such as corbels and ledges that were found to be missing from the original design have also been reinstated to restore the legibility of the original architecture of SJPS.

On 4 November 2022, Mapletree Investments announced that the restored SJPS had received the 2022 Award for Conservation & Innovation as part of the URA Architectural Heritage Award ("AHA"). In recognition of its



Facade elements

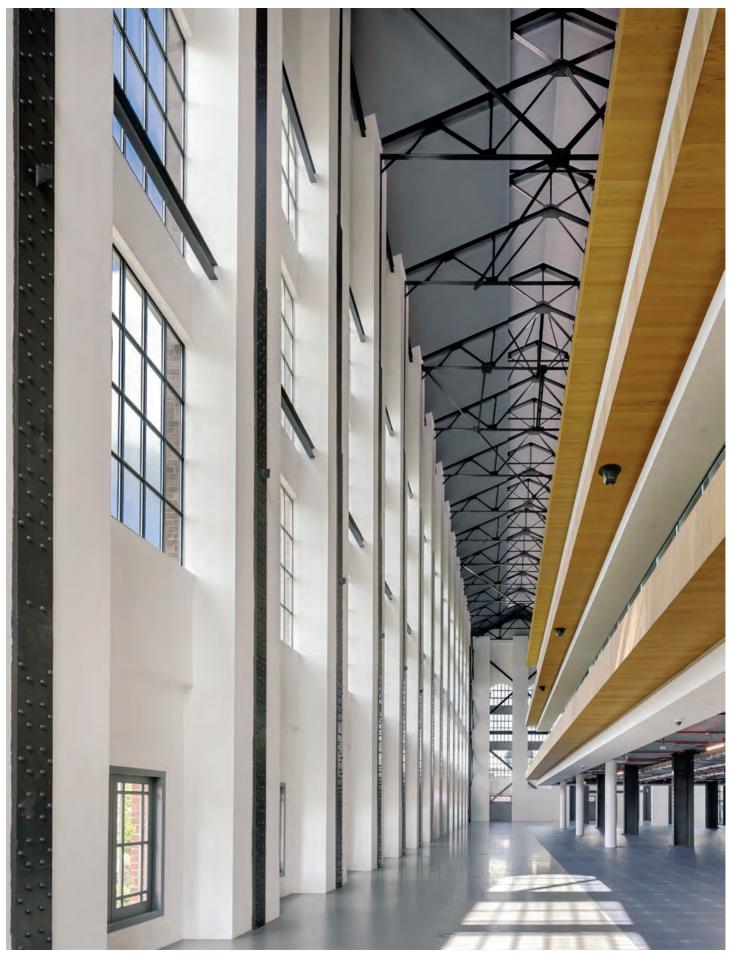


Mild steel windows



Timber doors and windows.

↑ ADAPTIVE REUSE



Interior of St James Power Station (from another angle): The floor slabs have been set back deliberately to create a long void so that the side façade of the block can be fully appreciated.



Interior of St James Power Station - New floating floor slabs were sensitively inserted at selected locations within the power station to introduce additional space for modern office use.

exemplary performance, the project was also accorded the additional mark of Distinction, which is reserved for exceptional projects that excel in all assessment criteria.

Mr Edmund Cheng, Chairman, Mapletree, said, "It gives us great pleasure that our vision and plans to restore and rejuvenate St James Power Station is recognised by the URA. This iconic monument not only marks a strategic point in Singapore's history but is also a landmark symbolic of the nation's adaptive agility for the future."

Sustainability was integrated into the architectural design and building operations as part of Mapletree's commitment to incorporate sustainable practices in all its businesses. A significant reduction in embodied carbon footprint was achieved through adaptive reuse as compared to the construction of a new building.

PROJECT DETAILS

PROJECT NAME: St James Power Station

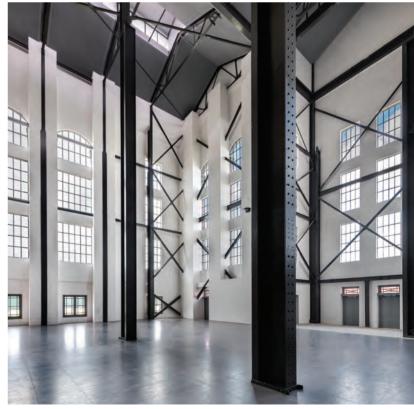
PROJECT LOCATION: Singapore DEVELOPER: Mapletree Investments

ARCHITECT: W Architects

GROSS FLOOR AREA: 13,000 square metres

YEAR OF CONSTRUCTION TO COMPLETION: 2018 to 2021

PHOTO CREDIT: Mapletree Investments



Steel structures







he Opera House is a story in itself. Built in the 1930s by the British, it swiftly became a popular spot for entertainment, serving as a venue for opulent balls and theatrical performances. The road to its restoration, however was arduous, making the finished project a historic and emotional milestone.

The owner, whose deep roots in Bangalore have cultivated a long-time commitment to the local area, wanted to see the structure restored to its former grandeur rather than being demolished and the land redeveloped. After two decades of sitting derelict and forgotten, a transformative opportunity presented for the Opera House that would celebrate its heritage in the form of a new modern icon; this is where Samsung entered the scene, and leased the site for its 'Retail Experience Center'.

The objective of the venture was two-fold; to develop a one-of-a-kind flagship retail experience for Samsung, and activate a space for the community. Designed with emphasis on a unique retail and community experience for visitors, Samsung's ultimate goal was to foster a connection with customers over and above product and service interactions by creating an immersive experience that extended beyond the building's interior.

Samsung's 'Retail Experience Center' is conceived as a space that is tailored to encourage and support of customer experience at all levels. By removing superfluous façade elements around the building, the design team paved the way for a strategic reimagining of the entrance, creating an inviting 'arrival' experience. This allowed greater transparency into the store. The introduction of new windows encouraged more natural light to filter in, simultaneously opening up dynamic views of the street from the inside.

Working with the Samsung team, a landscaped outdoor plaza with entry points was envisioned at every major intersection, creating a welcoming space for the public to gather. For effectiveness, the various respite areas and ample tiered seating encourage visitors to linger. The plaza is ideally suited for hosting outdoor events, with the plaza's flexibility as an ever–evolving event space. Temporary pop–up pavilions and installations can be implemented to bring the Samsung experience and product out to the public.

It was imperative, for all parties involved, to preserve the architectural integrity and unique heritage of the building. The seed for the concept was sown with the need to combine historic vernacular with contemporary, futuristic function; subsequently this became the unique selling point of the design. Gensler balanced this vernacular with Samsung's product display, fixtures and merchandising requirements along with front-of-house and back-of-house space needs which redefines the paradigm of an architectural heritage .

The design team supported the facilitation of the project's initial visioning to balance the requirements of Samsung and the building's landlord. Another significant challenge was to recapture the inherent beauty of the historic building while successfully modernizing it for contemporary use. Among the biggest challenges was 'de-layering' the existing façade to restore it to its original glory and upgrading the interiors to ensure contemporary code compliance and alignment with Samsung's needs.

Given the need to convert the historic building into a technology-rich retail environment for Samsung, it was essential to find creative ways to integrate new services and technology infrastructure that worked with the existing elements like the original brickwork while applying traditional techniques to restore the roof, façade, and internal decorative sections.

The newly revitalized Samsung Opera House now tells a story of the past, present, and future, through a design lens, consciously embodied materials, and cutting edge technology. The thoughtfully restored structure serves as the canvas for an activated customer and community experience.

Furthermore, this project is a great example of how 'revival architecture and design' can positively shape the future of cities by transforming the urban fabric of the area. The impact of the Opera House renovation effectively extends beyond the physical boundaries of the building itself to embrace the surrounding community, as well as nurture and grow with it.

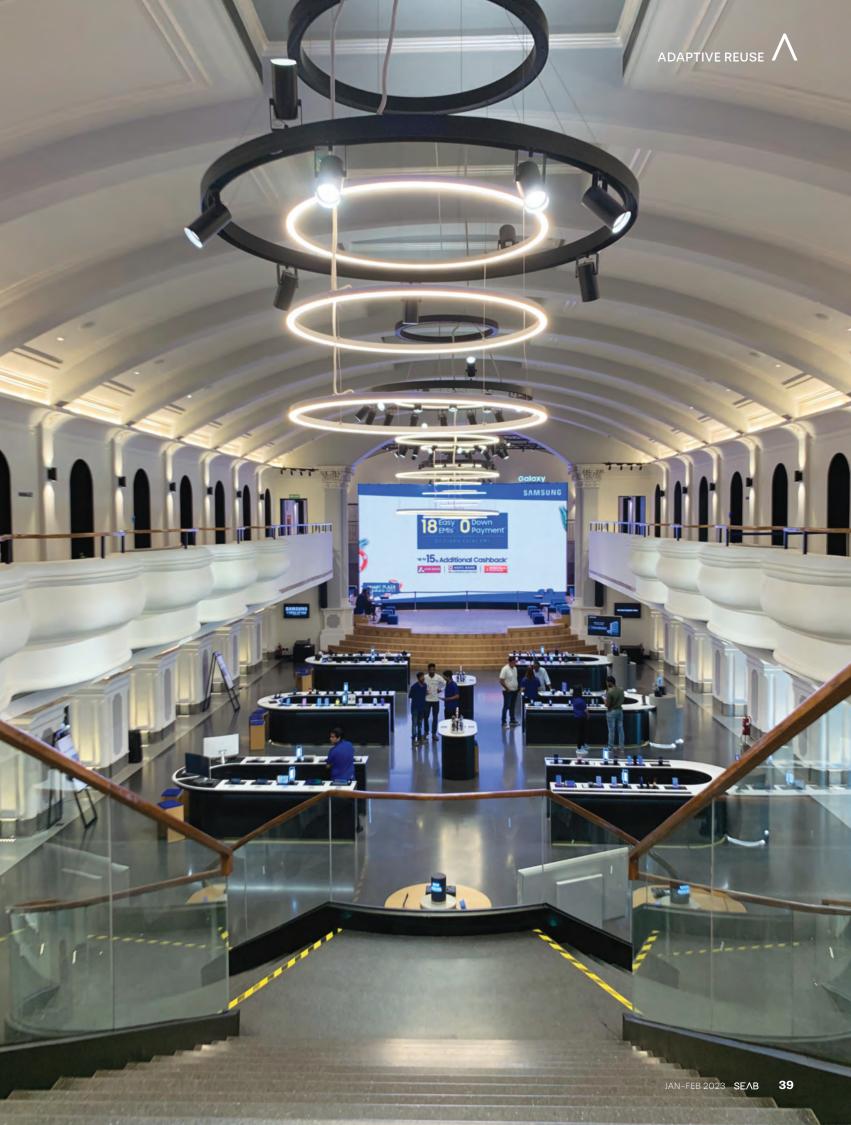
PROJECT DETAILS

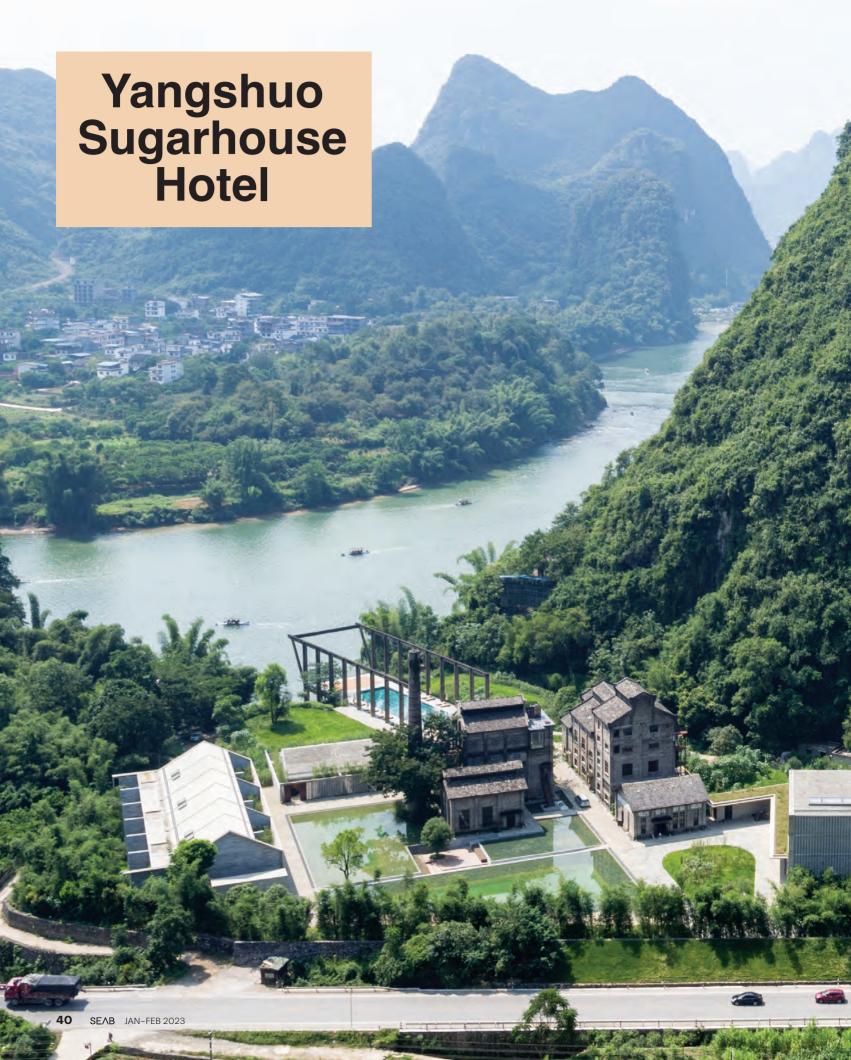
PROJECT NAME: The Opera House **PROJECT LOCATION:** Bangalore, India

CLIENT: Samsung **ARCHITECT:** Gensler

BUILDING AREA: 19,000 square feet

COMPLETION: 2019
PHOTO CREDIT: Gensler







ADAPTIVE REUSE



North facade of main building. Photographer: Su Shengliang. Photo copyright: Vector Architects

ugarhouse Hotel is located in a col near Li River in Yangshuo, Guangxi. Surrounded by picturesque natural landscape, the site locates in one of the most typical karst regions. An old sugar mill built in 1960s is beautifully preserved, with an industrial truss used for sugar cane transport. Vector Architects envisioned industrial heritage as the representation of spirit of older generation. This became the premise of this project. The main design strategies by Vector Architects included the following.

Old and new

Flanked with newly-added suite building and villa, the old sugar mill and industrial truss occupy the central part of the hotel complex. The sunken plaza and reflecting pond further accentuate the spiritual symbolism and significance of the old structure. In order to create a sense of consistency, instead of simply copying the old materiality and texture, Vector Architects tried to seek this nuance where they used more contemporary materials and construction methods while remaining the tinge and masonry structure of the old. Hollow concrete block and wood-formed cast-in-place concrete served to make the new



Reflecting pond. Photographer: Su Shengliang. Photo copyright: Vector Architects

volume more light and transparent visually without disturbing the existing order, and enhanced natural lighting and ventilation at the same time. Vector Architects kept the profile of new building as simple as possible to avoid unnecessary distraction to the old sugar mill caused by overly expressive geometry. Roof slope is consistent with the original one: after the completion



Drawing copyright: Vector Architects

of the hotel complex, its profile becomes a cluster of pitched roofs. Vector Architects hopes the New is progressively evolved and conveys a sophisticated consistency with the Old.

Promenade experience

Vector Architects viewed the site as a garden for guests to wander and ponder: old sugar mill, industrial truss, new volumes, reflecting pond and path define spaces of different kinds. Two circulation systems pass up and through the suite building: one being completely functional corridor system while the other serving as a free public walkway, connecting three important cave-like node spaces. The public walkway is the extension



Swimming pool and industrial truss. Photographer: Chen Hao. Photo copyright: Vector Architects

of the promenade experience on the ground level. Wandering around the resort hotel, guests experience the alternation of light and dark, change of framed landscape view, distance and elevation.

Man-made and natural

The site is surrounded by karst peaks, facing Li River to the south and a busy driveway to the north. Horizontality of architecture and verticality of karst mountain shows interaction between the man-made and the natural. Besides, the public walkway is artificialized and geometric version of pathway and cave carved into the karst mountain since ancient times. The 'caves' are carefully located so that they visually connect architectural space with natural mountain scape.

PROJECT DETAILS

PROJECT NAME: Yangshuo Sugarhouse Hotel
PROJECT LOCATION: Yangshuo, Guilin, Guangxi, China
CLIENT: Landmark Tourism Investment Company
PRINCIPAL ARCHITECT: Gong Dong / Vector Architects
INTERIOR ARCHITECT: Bin Ju / Horizontal Space Design

BUILDING AREA: 16,000 square metres

DESIGN PERIOD: August 2013 – October 2014

CONSTRUCTION PERIOD: October 2014 – June 2017





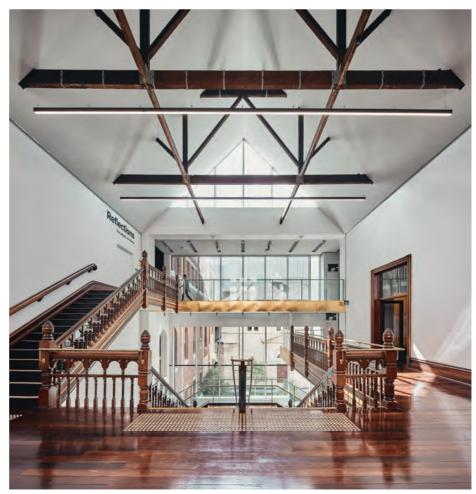


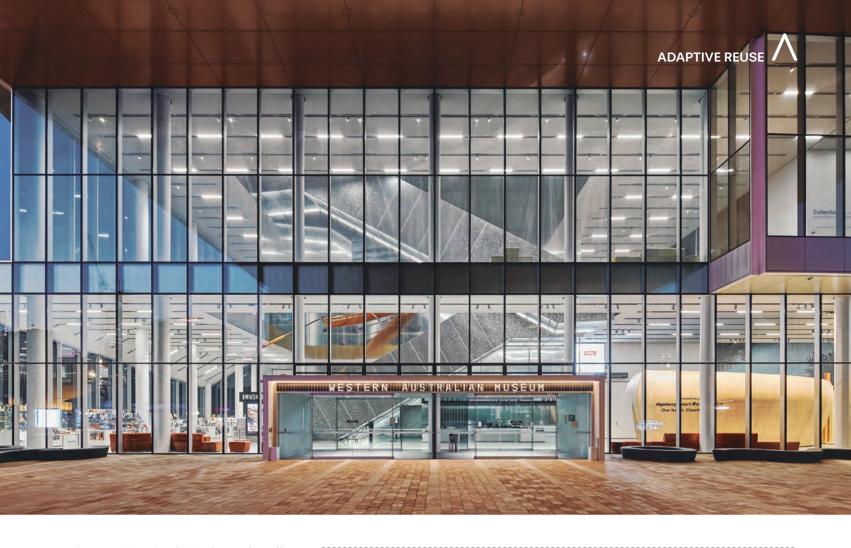


ocated in Perth's Cultural Centre, WA Museum Boola Bardip provides spaces for exhibitions and events, and new retail and dining opportunities for the former museum, showcasing the State's natural and cultural collections. Formed with renovated heritage-listed buildings and new volumes, the Museum has been conceived as a framework to share the diverse stories of Western Australia - a State characterised by its extraordinary people and places and home to the oldest continuous culture on earth, an increasingly diverse, multicultural population, and a world biodiversity hotspot.

In the Museum, heritage and contemporary structures complement each other. Preserved and revitalised buildings on site include the Old Gaol dating from the mid-19th Century, the Jubilee Building built in 1899, the original Art Gallery built in 1908 and Hackett Hall – the State Library's reading room built in 1913.

The new museum is designed as a series of virtual'stories' that guide visitors through the major galleries to experience more of the state's collections. New volumes wrap around these heritage buildings to create two core elements of the Museum: two





intersecting circulation loops that allow visitors to explore the museum through vertical and horizontal pathways, and a 'City Room' – an outdoor public meeting place, event space and program area for the whole community.

Visually connected to the two circulation loops inside the Museum, the City Room is the project's focal point – at once inviting the public to explore the exhibitions, and encouraging Museum visitors to gather and exchange dialogues. Wandering between the restored heritage-listed buildings and the new contemporary development will feel seamless for visitors.

A 1,000 square metres special exhibition gallery will feature major exhibitions from around Australia and the world. Retail spaces and places to eat and drink are designed to encourage visitors to flow through the museum – especially after hours – contributing to the precinct's livelihood and growth.

The preserved historical buildings evoke the site's social and cultural history. Clad with perforated metal facades, the new rectangular volumes shine under sunlight and glow in the dark. WA Museum Boola Bardip is a landmark in Perth's Cultural Centre – for the city and the State.

PROJECT DETAILS

PROJECT NAME: WA Museum Boola Bardip
PROJECT LOCATION: Perth, Australia

CLIENTS: Multiplex, State Government of Western Australia

ARCHITECT: Hassell + OMA

MANAGING CONTRACTOR: Multiplex
GROSS FLOOR AREA: 19,000 square metres

YEAR OF CONSTRUCTION TO COMPLETION: 2016 to 2019
PHOTO CREDIT: © Peter Bennetts, courtesy of Hassell + OMA







Project Name: IT Agency

Project Location: Cyberjaya, Selangor, Malaysia

Interior Design: Blaine Robert Design **Sdn Bhd**

Photo credit: Blaine Robert Design Sdn Bhd

COMMERCIAL INTERIOR DESIGN

laine Robert Design is a luxury interior design fit out firm that specialises in creating spaces that reflect their clients' unique lifestyles. Recently, the team had the opportunity to showcase their skills in an Affordable Luxury Office project for a government IT agency based in Cyberjaya, Selangor, Malaysia. The project covered a build-up size of 6000+ square feet and a timeline of six weeks.

Design Concept

The designers at Blaine Robert Design were determined to create a cohesive and visually appealing interior that exuded afriendly and inviting ambiance. To achieve this, they employed the use of simplicity and natural elements, as well as a natural colour palette. One standout feature of the office was the incorporation of biophilic design elements, which brought the beauty and benefits of nature into the built environment. This was achieved through the use of various biophilic design elements, such as:

- Plentiful natural light: large windows and skylights were used to bring in plenty of natural light, which has been shown to improve mood and productivity.
- Natural materials: The team at Blaine Robert Design used natural



Photo credit: Blaine Robert Design Sdn Bhd

- materials such as wood, stone, and plant-looked textiles to create a warm and inviting atmosphere.
- Views of nature: The office was designed to allow for views of the surrounding natural environment, which has been shown to have a calming effect on the mind.

In addition to aesthetics, the team at Blaine Robert Design also paid careful attention to the functional needs of the government agency and its employees. The layout and furniture choices were selected with the goal of promoting productivity and comfort, with ergonomics playing a crucial role

in the design process.

Project Management

Blaine Robert Design is very focused on using quality materials in their fitout projects to ensure that the end result is not only visually appealing, but also functional and long-lasting. This includes carefully selecting building materials that are durable, sustainable, and meet all necessary building codes and regulations. The team at Blaine Robert Design also excels in project management, ensuring that every aspect of the project is completed on time and within budget. This can be a challenge, especially when working within a tight timeline and budget constraints, as was the case with the Affordable Luxury Office project. However, the team was able to successfully navigate these challenges and deliver a successful project that not only looks good, but also promotes the well-being and productivity of those who work within it.

Summary

From the use of biophilic design elements to the careful consideration of ergonomics and the use of quality materials, every detail of the project showcases the team's expertise and dedication to creating spaces that exceedtheir clients' expectations. Blaine Robert Design is a reputable company known for their ability to deliver projects on time and with high levels of client satisfaction. They are dedicated to creating unique and functional spaces that meet their clients' needs and exceed their expectations.



Photo credit: Blaine Robert Design Sdn Bhd



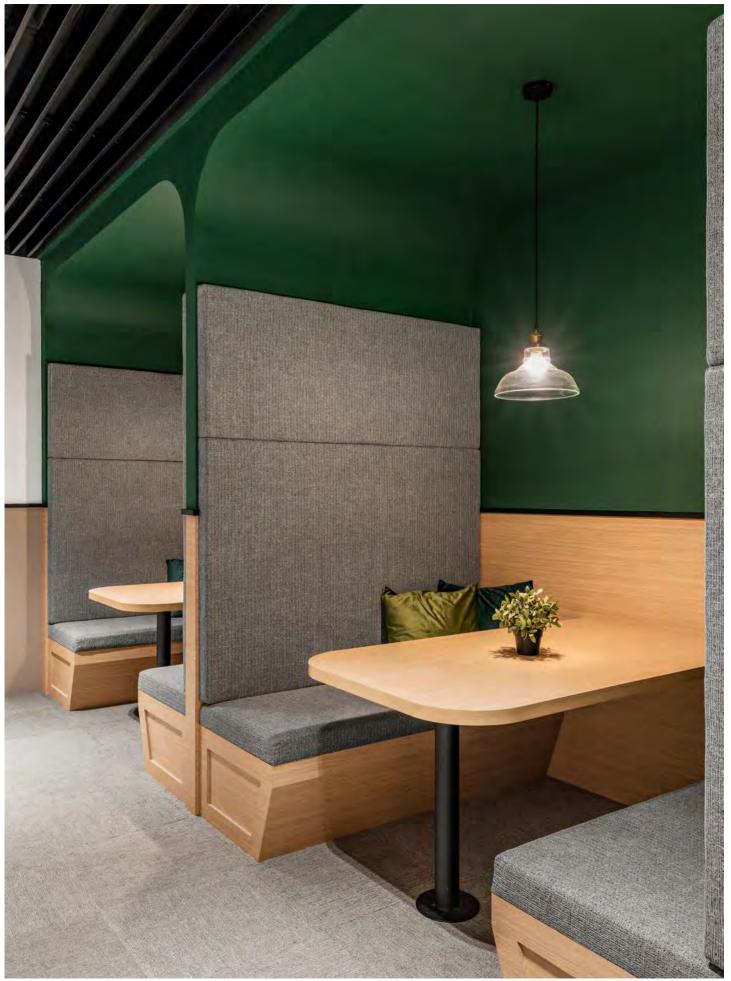


Photo credit: Blaine Robert Design Sdn Bhd



BigToys builds playground equipment with recycled content

igToys has been creating environmentally friendly playground equipment even before green became a trend. Because for the company, going green is never a trend – it's a lifestyle. The company believes in sustaining play for generations to come.

BigToys products claim to lead the industry in recycled content, averaging more than 70 percent reclaimed material in each structure.

Its decks, enclosures and roofs are made from 100 percent post-consumer recycled High Density Polyethylene (HDPE) formed from milk jugs. This process has diverted more than 18 million milk jugs from landfills since 2005.

The company has also diverted more than 1 million pounds of scrap metal from landfills since 2005 by using recycled metal to manufacture its metal uprights.

Not only does the company choose earth friendly materials, but it also implementsgreen practices that improve the environmental sustainability of its manufacturing process. Its manufacturing facility in Fort Payne, Alabama is ISO 14001 certified. This certification specifies the requirements of its environmental management system (EMS).

BigToys playground equipment is available in Singapore through its distributor Playpoint (Singapore) Pte Ltd. The company has installed the playground equipment at Treelodge@ Punggol, a HDB estate located in Punggol in Singapore.

Commenting on the project, Jason Sim, Managing Director, Playpoint (Singapore) Pte Ltd, said: "It was chosen because of the environmental sustainable materials that meets the Green Mark requirements required for the project."





Photos credit: Playpoint (Singapore) Pte Ltd



Ziehl-Abegg investing 100 million euros in the construction of a new US production plant

Kuenzelsau, Baden-Wuerttemberg, Germany – German manufacturer of electric drives and fans is boosting its production and sales activities in North America.

"We are investing 100 million euros in a completely new production plant in the USA," said Joachim Ley, Chief Operating Officer of the fan manufacturer Ziehl-Abegg. This is the largest single investment at one location in the company's 112-year history and is the result of the strong growth in quiet, robust and energy-saving fans in the markets in Mexico, Canada and the USA.

Growth in North America has enabled the Greensboro (North Carolina) site to increasingly accelerate its rate of expansion since its inception in 2004. The figures are impressive: In the first 10 years, the number of employees at Ziehl-Abegg in the USA only grew from 0 to 40; in the past 8 years it has already increased from 40 to 230. And by 2030, it is anticipated that there will be 800 people working for Ziehl-Abegg in the USA. The headquarters of Ziehl-Abegg USA is responsible for the whole of North America and has eleven sales offices serving the markets in the USA, Mexico and Canada.

Ziehl-Abegg is a world leader in the field of ventilation and drive technology,



Ziehl-Abegg will be making the largest single investment in the company's history in order to expand production and sales in the USA. Photo: ZIEHL-ABEGG

in combination with the corresponding control technology. "In addition to data centres, areas of application for the products include heating and refrigeration systems, clean rooms and agricultural systems," says Mirco Herrmann, the US Managing Director of Ziehl-Abegg.

The new plant, with administration building attached, will be constructed in Winston-Salem (North Carolina). This is about 20 kilometres away from the existing site. The building, covering an area of 46,500 square metres, is expected to be ready for occupancy in 2024. The existing production plant will then be relocated to the new site in 2025.

The production plant will have

a high level of vertical integration. Chief Operating Officer Ley: "We will not only be expanding capacities but also increasing the level of vertical integration. Thanks to a fully system of self-contained system of production, starting with the motors, we will be able to offer our customers a high degree of flexibility and short delivery times."

Winding machines, welding robots and CNC machines haven been installed for this purpose. Due to the location's central function, the site will include a high-bay warehouse. "And in the medium term, we will also be setting up a development hub with a laboratory in Winston-Salem," said Mirco Herrmann. This will require an extensive system of air measurement and motor test rigs.

KONE to equip phase two of Metro Line 10 in Chongqing, China

Helsinki, Finland – KONE Corporation has won an order to supply a suite of People Flow® solutions, including 28 KONE elevators and 228 KONE escalators, for a metro line in Chongqing, China.

The phase two of Chongqing Metro Line 10 has a total length of almost 10 kilometres, starting from Liyuchi Station and ending at Lanhua Road. There are eight stations, seven underground stations and one elevated station, including four transfer stations. The line passes through Jiangbei District, Yuzhong District and Nan'an District.

KONE's delivery includes 18 KONE MonoSpace® elevators, 10 MiniSpace™ elevators and 228 KONE TransitMaster™ escalators. The contract also includes two years of standard maintenance.

"We are excited to deliver our solutions to improve the flow of urban life in Chongqing and help make metro travel safer and smoother," said Joe Bao, KONE executive vice president of Greater China.

The building is being developed by Chongqing Rail Transit (Group) Co. Ltd, the contractor is Chongqing Monorail Engineering Co. Ltd and the leading architects are Beijing Urban Construction Design and Research Institute Co. Ltd.

The project is expected to be fully completed in June 2023. KONE booked the order in the third quarter of 2022.



Hitachi receives 40 high-speed elevators order from Unity Group for "The Amaryllis" in Delhi, India

New Delhi, India — Hitachi, Ltd. recently announced that Hitachi Building Systems Co., Ltd. and Hitachi Lift India Pvt. Ltd., a subsidiary of Hitachi, Ltd. which operates sales, installation, and maintenance of elevators and escalators in India, have received an order for 40 units of high-speed elevators from Unity Group for the first time for their super-luxurious residential complex "The Amaryllis" phase 2 in Delhi, India.

The Amaryllis is a 160,000 square-metre residential project that has 5 phases. Phase 2 consists of 10 high-rise residential towers to be completed in 2023. The 10 towers will be 143 metres tall with 35 floors.

These 40 units are high-speed elevators with a rated speed of 180 m/min or 150 m/min and have an earthquake emergency operation system that detects an earthquake and stops the elevator quickly on the closest floor so that passengers can get out without being stuck in it. These features provide users with safety, security, and comfort.

Trina Solar announces module shipments of 28.79GW as of third quarter, new-generation Vertex N modules redefine high-efficiency products

Changzhou, China – Trina Solar (688599. SH), a leading global PV and smart energy total solutions provider, reported its third quarter 2022 financial results on October 30, announcing revenue of about USD 8.8 billion (RMB 58.2 billion) in the first three quarters, up 82.56 percent year-over-year.

Trina Solar said that by the end of the third quarter its module shipments for the year had totaled 28.79GW, tracker shipments totaled 2.8GW and energy storage shipments exceeded 300MWh. Trina Solar ranks first in the industry worldwide in the number of 210mm cell modules shipped. According to the third-party TrendForce, the industry shipped 50GW of 210mm cell modules by the end of the third quarter this year, and the shipments of 210mm cell modules had totaled 76GW from the time they went into mass production.

In mid-October, Trina Solar launched its Vertex N 595W for rooftops and utility-scale projects globally, adhering to the LCOE-oriented principle, inheriting the Vertex family's four key competencies of higher power, higher efficiency, higher energy yield and higher reliability, with 30W higher than conventional n-type modules in the market, delivering lower BOS and LCOE to projects.



Trina Solar's headquarters in Changzhou, China. Image credit: Trina Solar

Trina Solar is committed to technical innovation and continues to lead the industry with n-type technology. In August the company once again broke a world record by setting the aperture module efficiency of Vertex n-type module at 24.24 percent.

The new generation of Vertex N

modules will be in mass production by the end of 2022, more than 10 GW of n-type modules capacity is expected to be released by the first quarter of next year, and 20GW to 30GW of capacity is expected to have been put on the market by the end of next year.

The Vertex S Aesthetic Module, an



upgraded product for residential market, defines the category of aesthetic black solar modules through all-around top and precise technology, including cells, bus bars, back sheets, frames, glass, modules, and packaging, delivery, unpacking, and installation in rooftop

scenarios. The high-standard design is aesthetically appealing in every detail, aiming to provide customers with an enjoyable experience of high technology and aesthetics that co-exist in harmony.

Helena Li, Senior VP at Trina Solar said: "Trina Solar has always been committed to serve global customers with clean and low-carbon products. We will continue to progress through technological innovation and provide customers with high performance and high value products, for a wider range of PV application all around the world."

Incheon Airport selects Geberit Pluvia roof drainage system again for Terminal 2

Singapore – Incheon Airport, the primary airport of Seoul, South Korea, has selected the Geberit Pluvia roof drainage system again to ensure heavy rain is a non-issue for its new Terminal 2.



Photo provided by Incheon International Airport Corporation.

With decades of experience, Geberit has set high standards when it comes to roof drainage, the Geberit Pluvia system has proven to be an effective solution for conditions everywhere. Utilizing the principle of negative pressure, the syphonic drainage design enables rainwater to be collected to fill the pipes completely and create a closed flowing water column that suctions the water off the roof effectively. This allows for an increased discharge capacity for a high volume of water at any given time.

As a system, implementing Geberit Pluvia roof drainage requires fewer roof outlets to achieve a high discharge rate, allows for increased planning flexibility by saving on stacks, and any space can be maximized further due to horizontal pipelines without slopes. Leveraging the Geberit ProPlanner or Geberit plug-in for Autodesk Revit using artificial intelligence also makes planning and calculations easier and more accurate, leading to more material savings, faster installation, and

minimal installation time needed for maintenance.

During the construction of the Incheon Airport Terminal 1 back in 2000, the Geberit Pluvia roof drainage system was installed as part of its safety precautions. Two decades later, in 2020, the Terminal 2 expansion works are still ongoing, with the Geberit Pluvia roof drainage system again tapped to be central to the process. There are a total of almost 200 Pluvia outlets and around 5,900 metres of Geberit high-density polyethylene (HDPE) pipes installed at Incheon Airport.



Photo provided by Incheon International Airport Corporation.

All Geberit Pluvia outlets are constructed with reliable sealing and a flange gasket. The tightness of every roof outlet is tested to deliver consistency and efficiency, and the rotating lock bar makes for easy installation.

The fastening system implemented also ensures that there is always ample support in all conditions. The Geberit Pluvia fastening system is ideal for lightweight roofs with the help of support rails, with fastening points only required every 2.5 metres to protect the infrastructure.

As for the Geberit HDPE pipes create a proven and robust pipe system that is firmly bonded, guaranteeing leakproof welded connections that will get the job done.



Major bulk order (33rd term contract) for 300 elevators received from the Housing & Development Board of Singapore (HDB)

Tokyo, Japan — Fujitec Singapore Corpn. Ltd., a group subsidiary of FUJITEC CO., LTD., has recently received a major bulk order for about 300 residential elevators from the Housing & Development Board of Singapore (HDB).

The HDB 33rd Term Housing project is for new homes across the public housing estates island wide and to be completed in the next four to five years. The order covers about 300 elevators, including highspeed models, to be installed in high-rise residential buildings with 30 floors or more.

To date, Fujitec Singapore has delivered a cumulative total of about 20,000 units to the HDB, consisting of new installations and replacement projects, since the first order for 2,000 elevators in 1972. In recent years, Fujitec Singapore has been actively involved in the Lift Enhancement Programme (LEP) with HDB and the



Image of the HDB flats. Photo courtesy of Fujitec Co., Ltd.

Town Councils to provide additional safety features such as Double Brake on existing elevators to enhance the safety.

The Singapore Government has been implementing a full-fledged public apartment policy since 1972. At present, more than 80 percent of the people of Singapore live in various types of apartments supplied by the HDB.

Through this project, Fujitec Singapore will contribute to the urban development of Singapore. Fujitec Group aims for further global business expansion under our medium-term management plan Vision24.

Belimo establishes foundation to reduce CO₂ emissions from buildings

Hinwil, Switzerland – With the establishment of the "Belimo Climate Foundation," Belimo is supporting non-profit institutions and non-governmental organizations in reducing CO₂ emissions from their buildings. This raises awareness of the great leverage that building renovations have in achieving climate targets.



Photo credit: Belimo

As an innovation-driven cleantech company, Belimo has set itself the goal of further reducing its emissions. Today, Belimo field devices already offset the CO_2 emissions generated during production and operation 24 times over through savings in their application. In addition, Belimo continuously invests in projects to reduce its own emissions. To offset the remaining emissions (according to the GHG Protocol: Scope 1, Scope 2 and air travel), Belimo has established the "Belimo Climate Foundation." The purpose of the Foundation is to contribute to the reduction of CO_2 emissions from buildings and to make society aware of the great leverage that building renovations have with regard to achieving climate targets.

By establishing the Foundation, Belimo is consistently pursuing its path to increase energy efficiency and to reduce CO_2 emissions from buildings. "Through projects financed by the Foundation, we can optimize buildings in the area of heating, ventilation and air conditioning technology and thereby reduce the CO_2 footprint of the global real estate portfolio," said Reto Wälchli, Managing Director of the Foundation. "Most people are not aware of the huge leverage the real estate sector has in achieving climate targets, and unfortunately it has been addressed far too little to date," continued Wälchli. "We want to change this with the 'Belimo Climate Foundation'."



Danfoss launches OFC, a game-changing discharge solution for oil-free systems

Nordborg, Denmark – The new innovative solution for oil-free chillers and heat pumps enhances the systems' reliability and efficiency.

The oil-free centrifugal market is growing exponentially around the world driven by a need to reduce system running costs, complexity, and system size.

The new Danfoss OFC check and stop valve incorporates a damped nozzle check valve, stop valves and diffuser function to address the major application pain points.

Higher compressor and system reliability

The nozzle check valve remains open at minimum flow, closes quickly if there is a system stop generating refrigerant backflow, and improves stability during surge, closing and opening for enhanced compressor reliability.

Decoupled stop and check functions allow fast access and improve reliability of sealing. The lock ring design prevents unintentional ball valve closes.

The OFC valve has a built-in sight glass which provides direct visibility of proper check valve functioning, and the built-in pressure port connects to a high pressure cut out as an added safety measure.

Higher system energy efficiency

Minimising pressure losses is critical to ensure optimum system efficiency. This is even more important at part-load conditions needed to meet the latest efficiency guidelines. Optimising the flow path within the valve improves flow capacity and reduces pressure drops by up to 70 percent compared to using an alternative piston type valve, axial wafer valve or swing wafer.

Reduced system complexity, installation, and maintenance costs

Production planning is much simpler as



Danfoss OFC valve is compatible with TT and TG Turbocor compressors. Photo credit: Danfoss



Danfoss OFC valve. Photo credit: Danfoss

the OFC valve is an all-in-one solution. There is no need to combine multiple components and store spare parts in inventory. Installation is fast and easy, allowing companies to start production quickly with shorter lead times. The OFC valve can be set up in three positions; either vertically, horizontally or at a 45-degree angle in order to optimise space and minimise piping.

The new OFC valve is compatible with the Danfoss portfolio of TT and TG Turbocor® compressors - the world's first oil-free magnetic bearing compressor for the HVAC industry.

"At Danfoss we are continually developing components for efficient oil-free systems," said Frank Ford, Director of Product Management at Danfoss Turbocor®. "With the OFC check and stop valve, customers can avoid high pressure drops and unstable performance. Through our innovative approach we have patented the check valve design used in the centrifugal compressor discharge line. There is no

other product on the market today that has the capabilities of our unique OFC check and stop valve."

Victor Marinich, Global Segment Director at Danfoss Air Conditioning said: "We are dedicated to supporting HVAC professionals by providing solutions that overcome the challenges they face. The OFC check and stop valve is just the latest in a line of new products within our extensive oil-free portfolio. We will soon be introducing ETS 175/250/400/500 L electric expansion valves dedicated to oil-free and high temperature applications. They are complementing the recent releases within our portfolio of expansion valves and accessories such as the EKF stepper valve driver, the EKE 2U power module, and brand-new superheat controllers platform - EKE 100 - which will be released in 2023. All that together support reliable, high-performance oil-free systems."

You can download Coolselector software at coolselector.danfoss.com.



Glasstech Asia and Fenestration Asia 2022 reinstates its position as the industry meeting point

A successful comeback for the leading trade fair for the glass and façade industry in Southeast Asia.

ingapore – The latest edition of Glasstech Asia and Fenestration Asia celebrated its success after its conclusion on 28 October 2022. In total more than 2,000 attendees from over 28 countries were attracted to the event that held the fair alongside an all-inclusive variety of side events such as the inaugural Asia Façade & Glass Conference, Singapore façade tour, International Year of Glass (IYOG) art exhibition – Through the Looking Glass, buyer-seller meetings, and an annual networking gala dinner.

The influx of exhibitors, delegates and visitors demonstrates the importance of the onsite exchanges of knowledge and the value of establishing our regional platform as the leading industry meeting place.

A brief analysis of the post show statistics reflects a promising rise of international visitor and exhibitor support on having real time, in person display and sharing of new technology and innovations amongst the industry, proving an increasing confidence of the ASEAN market's role. The positive turnout at the event indicates the region's demand for a holistic space to conduct physical meetings in lieu of restrictions caused by the recent pandemic.

Mr Michael Wilton, CEO and Managing Director of MMI Asia underlined, "The importance of this event and its success shows a promising trajectory for the glass and façade sector. The personal touch of having face-to-face discussions remains undisputed as the most effective way to set growth in the industry. The event was very well received from both exhibitors and visitors alike to mediate companies in their endeavour to pursue deeper connections with their audiences. With more plans to integrate Glasstech Asia and Fenestration Asia into the global BAU Network, I foresee an exciting future in providing the industry with increasing opportunities to share their story with a wider global audience."

Two-thirds of surveyed trade visitors expressed interest in returning for the next edition of the show, projecting a definite rise in numbers and traction in the trade fair's popularity. In addition to aisle discussions and hosted buyer gatherings, a total 519 private meetings were created to facilitate businesses in engaging the high-quality trades visitors present and expanding their global business contacts. "The success of this edition does not only represent a restoration of industry norms, but the revival of close knitted connections made possible by regional platforms such as Glasstech Asia and Fenestration Asia," emphasised Mr Gan Pay Yap, Chairman of Singapore Glass Association. "We are excited to see the continuation of the industry's success next year and witness the sharing of new developments and innovations in the region".

The next Glasstech Asia – the 19th International Glass Products, Glass Manufacturing, Processing & Materials Exhibition, and Fenestration Asia – the 6th International Windows, Doors, Skylights, Curtain Wall & Facade Technology Exhibition, will take place from 29 November – 1 December 2023 at the IMPACT Exhibition and Convention Centre in Bangkok, Thailand.

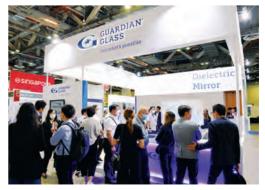
For more information, please visit: www.glasstechasia.com.sg and www.fenestrationasia.com.



CEO Michael Wilton giving the opening address. Photo credit: MMI Asia



Audience at the Asia Facade & Glass conference.
Photo credit: MMI Asia



Diamond Sponsor Guardian Glass' booth. Photo credit: MMI Asia

3A Composites offers aluminium composite material for architectural cladding applications



Country Sales Manager, Ms Khine at her booth.

A Composites Asia Pacific Pte. Ltd. featured ALUCOBOND®, one of the most preferred brand of aluminium composite material (ACM) or panel (ACP) for architecture cladding applications, at Glasstech Asia & Fenestration Asia.

ALUCOBOND® helps architects, building owners and fabricators turn their ideas into reality. This is because the product adapts perfectly to the building's contours. It can easily be cut and shaped, without having to compromise on the surface finish. Whether soft curves or perfect flatness, ALUCOBOND® will provide a perfect design.

The product comes with Class 1A Certification, meaning that the company's tests are done through independent 3rd parties with inspections and audits on a regular basis.

For more information, visit www.alucobond.com.sg.

Dow Chemical unveils carbon-neutral silicones for building facades

At Glasstech Asia 2022, Dow Chemical Pacific (S) Pte Ltd unveiled DOWSIL™ Façade Silicone – the first ever carbon–neutral silicones for building facades.

The product is verified by PAS 2060 standard for carbon neutrality and therefore can can help reduce the environmental impact of buildings, achieve better green-building certification ratings such as LEED and help limit the creation of greenhouse gases (GHGs) that contribute to earth's climate changes.

Dow Building Science has a strong commitment to reduce our carbon footprint and help address climate change. With more than 50 years of innovation and global leadership in structural silicone glazing, Dow is the first to offer high-performance bonding silicones with externally verified carbon neutrality.

The company also introduced its new "Dow Build Science Connect" during the show. Dow Build Science Connect is an interactive on-line portal that showcase innovations and established performance-enhancing



Teh Kee Tian, Account Manager, High Performance Building, Dow Chemical (Malaysia) Sdn. Bhd. at the company's booth.

technologies for building facades, in an inspiring and engaging way. Building specifiers and applications specialists can navigate a virtual city environment to easily access Dow's product catalogue and discover how DOWSIL™ Technologies and Innovations can help meet the challenges of safe, sustainable and modern building design.

"The introduction of the first ever carbon neutral silicone programme represents a significant milestone on our sustainability journey. This is a project specific carbon neutrality service and is now available for structural glazing, insulating glass and weather sealing," said Gwen Tan, Regional Marketing Manager, Dow Building Science.

For more information, visit www.dow.com.



Glimex Marketing Pte Ltd showcases its glass offerings

Glasstech Asia 2022 with the aim of meeting its customers and making new connections.

Incorporated in 1983, Glimex Marketing has grown into a large company that supplies a wide variety of stock from float glass of different thickness to many types of interior glass & mirrors to high performance glass for use in facades and glass for use in electronics and semiconductors. Glimex Marketing strives to provide all types of high quality glass from our partner suppliers.

Sustainability is at the heart of the company's business. Glimex Marketing began actively engaging in glass recycling activities in the early 2000s to reduce wastage. At the same time, Glimex found that many others in the glass trade were facing problems disposing glass waste and soon, Glimex stepped up to fill this gap and started collecting waste glass island-wide.

"The turnout of the Glasstech Asia trade show is much better than expected and in this event we have not only met many old friends in the region as well as new interest. I believe many of us in the glass industry are very happy to meet one another again. We wish the best to everybody," said Mr Gan Pay Chee, Director — Sales & Marketing, Glimex Marketing Pte Ltd.

For more information, visit www.glimex.com.sg.



Mr Johnny Ng, Life Honorary Chairman, Singapore Glass Association (left) and Mr Gan Pay Chee (right) at their booth.

Tremco brings low carbon sealants, tapes and membranes to Glasstech Asia 2022

At Glasstech Asia 2022, Tremco Construction Products Group (CPG) showcased its range of low carbon sealants, tapes, and membranes suitable for various types of commercial glazing and façade projects.

The exhibition provided the right avenue for Tremco CPG associates to mingle, network, and answer queries regarding its product technologies and innovation, with special attention given to its 'Green and Fire Rated' products that promote sustainability and energy-efficiency.

"We also used this opportunity to showcase our illbruck Compriband TP600 impregnated joint sealing tape and Compriband Super FS, which received a lot of interest over the three-day event due to their ability to weatherseal a wide variety of construction joints, window perimeter seals, and other applications," said Shevonne Kok, Country Manager of Tremco CPG Singapore.

She continued, "By participating in Glasstech Asia, we were not only able to educate others about our 'green' solutions, but also reaffirm our commitment towards sustainability through the continuous development of innovative and low carbon building materials."

For more information, visit www.tremcocpg-asiapacific.com.



The Tremco team at Glasstech Asia 2022. From left to right: Will Facer (Head of Marketing & Communications APAC); Mavis Chuan (Sales & Specification Executive); and Jackson Kho (Area Director, SEA); and William Lee (Sales Manager).



Shevonne Kok, Country Manager of Tremco CPG Singapore, at the company's booth. Photo credit: Tremco

Fameline APSG provides an overview of innovative architectural products

ameline APSG Pte Ltd gave visitors an overview of its innovative architectural products and designs at Glasstech Asia and Fenestration Asia 2022.

The company is a designer, manufacturer, and supplier of its own brand Fameline. With over 25 years of experience, the company has earned the trust of architects and designers around the world.

Fameline promoted the Fameline Performance Louver, Acoustic Louver, Aluminium Honeycomb Panel, Metal Ceiling and Entrance Mat System at the show.

Fameline has created a series of performance louver system to achieve the perfect balance of rain defense, air flow performance and acoustic functions. While louvres are designed to allow air ventilation, there is always the risk of water ingression. Noise reduction performance has also become more prevalent in the current built environment design. Fameline's experienced designers have meticulously fusion both functions and forms to create a range of aesthetically appealing louver system, which will meet the needs of different project requirement. Fameline Performance Louver System is tested by reputable accredited laboratories in the UK and US to the latest international test standards: BS EN 13030:2001 and ASTM E90-09 [2016].

The Fameline Entrance Mat System is an effective matting system that allows your guests to leave their "footprint" at the door, instead of leaving a trail of dirty footprints on your flooring. The product is commonly used in transport hubs, retail, healthcare, corporate, hospitality, education, car showrooms and apartments.

For information, visit www.fameline-apsg.com.

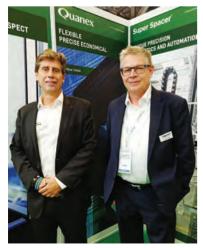


Fameline's booth at the exhibition. Photo credit: Fameline APSG



John Lim (left) and Brandon Ong (right) at their booth. Photo credit: Fameline APSG Pte Ltd

Edgetech Europe showcases flexible and sustainable spacer technology



Fabrice Keller (left) and Joachim Stoss, VP International Sales, Edgetech Europe GmbH (right) at their booth.

dgetech Europe GmbH, a subsidiary of Quanex, showcased Super Spacer® – a flexible and sustainable warm-edge spacer technology.

Spacer technology plays an important role in delivering energy efficient windows and façade systems. Passive Houses in particular would be impossible without the benefits that state-of-the-art warm-edge spacers bring. Therefore architects, property developers, window manufacturers and glass processors are prioritizing warm-edge more than ever before.

Freely shapeable, subtle aesthetics and suited to either manual or automated application, Edgetech's celebrated Super Spacer® warm-edge spacer offers unparalleled flexibility.

"We want to sell the product to Singapore and expand to Asia," said Fabrice Keller, Area Manager, Edgetech Europe GmbH.

"We want to promote our product at the show, meet people and have a better knowledge of the market," added Fabrice.

For more information, visit www.superspacer.com.



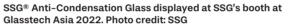
Singapore Safety Glass heats up their participation with their heated glass

Singapore Safety Glass Pte Ltd (SSG) also took part in the exhibition to showcase its capabilities. Incorporated in 1989 as a glass fabricating company, SSG has quickly become a leading glazing solutions provider for the Singapore and international market.

At the exhibition, SSG put the spotlight on its heated glass capabilities: SSG® Anti-Condensation Glass and SSG® Food Warmer. Both use an electrically conductive glass that keeps the surface of the glass warm.

Condensation in buildings is an unwanted problem as it causes mould growth and corrosion of building







Ihsan Ruzaini at his booth.

materials, which leads to a weaker building structure. Indoor air humidity can be lowered with SSG® Anti-Condensation Glass on windows and façades of a building. SSG® Anti-Condensation Glass works by keeping the surface of the glass warm, thereby preventing the formation of water droplets. By preventing the formation of water droplets, SSG® Anti-Condensation Glass is used in commercial & domestic applications that require active condensation control & high light transmittance.

Its SSG® Food Warmer creates uniformed heat across the glass providing an optimally-heated surface for serving food at safe temperatures.

"We want to showcase the various applications & solutions available with this heated glass technology here at SSG," said Ihsan Ruzaini, Marketing Executive, SIngapore Safety Glass Pte Ltd.

For more information, visit www.ssg.com.sg.

Kuraray Specialities showcases glass-laminating solutions



Natsaree (left) and her colleague Jasmine Goh, Customer Service, Kuraray Asia Pacific Pte Ltd (right) at their booth.

Kuraray Specialities (Thailand) Co., Ltd. took part in Glasstech Asia 2022 to showcase its glass-laminating solutions and to connect with its customers.

Headquartered in Japan, Kuraray has sales offices in Singapore, Malaysia and Thailand. The company manufactures interlayer film that enhances the safety of laminated glass.

TROSIFOL® offers the world's broadest portfolio of innovative glass-laminating solutions, including structural and functional interlayers for safety and security applications, sound insulation and UV protection. For decorative applications, TROSIFOL® supplies coloured interlayers, digitally printable films and other innovative products for interior design projects. TROSIFOL® UltraClear® films exhibit the lowest yellowness index (YID) in the industry.

The SentryGlas® interlayer from the Trosifol® Structural product family is five times stronger and up to 100 times stiffer than conventional laminating materials. With this kind of strength the glass can be a more active structural element in the building envelope, opening up design possibilities that didn't exist before. Besides its strength, SentryGlas® ionoplast interlayer retains its clarity – even after years of service. Unlike other interlayers, SentryGlas® ionoplast interlayer is much less vulnerable to moisture exposure or yellowing over time.

"We would like to show our offerings and meet our customers from Singapore and Asia," said Natsaree Manumaphorn, Executive, Sales & Technical Service – Thailand PVB Division.

For more information, visit www.trosifol.com.

Innivate Pte Ltd showcases performance louvres and other products

Innivate Pte Ltd exhibited its comprehensive range of Performance Louvres at the GlassTech 2022 show, all of which are made locally in Singapore. Also on show was the company's capability in Smoke Control Systems (Smoke/Fire Curtains and Ventilators), Expansion Joint Systems and Microlouvre Solar Shading.

With over 30 years of experience, Innivate Performance Louvres are designed to protect against the onslaught of wind-driven rain, especially in Asia. Innivate also offers a range of Acoustic Louvres, a high-performance solution to unwanted environmental noise pollution.

MicroLouvre[™] (UK) external solar shading screens are designed to combat the greenhouse effect in buildings. They reduce temperature and eliminate glare while maintaining almost perfect ventilation and outward visibility.

Innivate also works with Coopers Fire (UK), one of the world's most trusted and specified Fire and Smoke Curtain specialists to achieve high standards in smoke and fire curtain technology. Innivate also partners with Powrmatic, a leading accredited UK ventilation manufacturer with over 60 years of experience, for a wide range of highly efficient, innovative, and cost-effective natural and powered smoke ventilation products.

Innivate and Inpro (USA) collaborate to provide expert-engineered joint solutions so that architects don't have to worry about compromised aesthetics.



Ronald Lee, Business Development Manager, Innivate Pte Ltd (left) and his colleagues at their booth.

For more information, visit www.innivate.com.

PyroGold presents high quality fire-resistant glass



Desmond Yeo (left) and his colleague Dan Lim (right) at their booth.

PyroGold (S) Pte Ltd, a manufacturer of fire-rated glass in Singapore, presented its fire-resistant glass at Glasstech Asia 2022.

The fire-resistant glass provides a physical barrier against flame, hot gases and smoke, making it an innovative fire resistant glass technology for safety and transparency.

It can withstand fire exposure on one side only, without the transmission of fire to the non-fire side as a result of significant conduction of heat from the fire side to the non-fire side, thereby causing ignition of the non-fire exposed surface of any material in contact with that surface and the ability to provide a barrier to heat sufficient to protect people near the element of construction for the relevant classification period.

The company can provide a wide range of fire rated glass with a fire resistance of 0.5 hours, 1 hour, 2 hours and 4 hours.

"Our glass stops fire on one side from heating the other side and allow people to get out safely from the room or building," said Desmond Yeo, Project Director, PyroGold (S) Pte Ltd.

The company has a manufacturing facility in Malaysia to serve its customers in Singapore and the region.

For more information, contact (+65) 6265 2198.

Designing for high-performance facades with Technoform's thermal insulation solutions

Technoform showcased thermal insulation solutions for windows, doors and facades at the Glasstech Asia exhibition, featuring the thermal break and warm edge spacer solutions. They also took the opportunity to showcase a wide range of solutions for different applications in the built environment industry.

Solutions Specialist at Technoform Asia Pacific, Amos Seah, noted: "There's a common misconception that thermal insulation solutions are only used in climatic regions. However, we are trying to educate industry stakeholders that they are equally important in tropical climates as well – serving to minimise heat gain into buildings, hence optimising building energy efficiency."

Reducing heat gain through aluminum frames

Fenestration frames are often made of aluminum, a good conductor of heat with a material thermal conductivity of 160W/mK. By using a thermal break, the interior and exterior aluminum sections are separated, substantially reducing heat gain through the frames.

The next step: Edge of glass

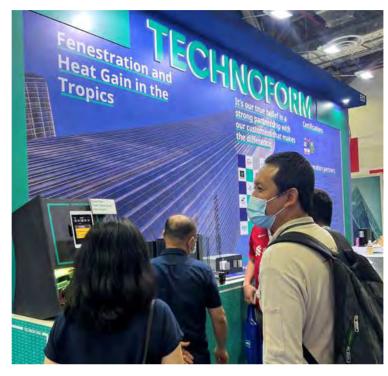
After the frame performance is optimised, heat will then enter through the next weakest link: edge of glass. Typically, insulating glass units (IGU) are separated by aluminum spacers, which have high thermal conductivity, resulting in heat transfer at the edge of glass.

However, Technoform Warm edge spacer is a thermally improved spacer, with a linear thermal transmittance that is almost two times better than traditional aluminum spacer.

Beyond thermal performance, Technoform Warm edge spacer can also:

- Enhance IGU durability by ensuring permanent gas tightness
- Minimise any incoming moisture, which can lead to condensation within IGU

Enhance aesthetics of IGU due to its matte surface and availability in different



Visitors at Technoform's booth. Photo credit: Technoform



Showcase of non-thermally broken window system (left) and thermally broken window system (right). Photo credit: Technoform

colours (e.g. black, white, brown), allowing for a seamless look

Pushing the boundaries of sustainability

Technoform's thermal insulation solutions have received various local and international green building product certifications, such as:

- Singapore Green Building Product (Excellent, 3 ticks)
- CradletoCradle (Gold)
- Passive House Institute (phA and phB)

They have also been adopted in various green building projects globally. A recent project in Singapore is the PSA Tuas Port Maintenance Base, which is certified Green Mark (Platinum) under the first Super Low Energy Building (SLEB) category, highlighting its best-in-class energy performance. The project has adopted both Technoform Thermal break and Warm edge spacer solutions.

Amos Seah emphasised: "From the increasingly stringent building codes to the ambitious 80-80-80 targets, our industry has been aggressively pushing for greener buildings. This makes it even more crucial to design for high-performance facades right from the start to future-proof our buildings, and you can continue to reap its energy-saving benefits throughout the building's lifespan."

For more information, visit www.technoform.com.

Thermoseal Group displays Warm Edge Glazing Technology

Thermoseal Group is the UK's largest specialist Insulated Glass (IG) component manufacturer and distributor, supplying over 2,500 components and a wide range of Thermoseal Group Equipment (TGE) for manufacturing IG sealed units. The multi-award winning company manufactures over 50 percent of the components that are supplied to over 40 countries across six continents, with the number of export distributors steadily increasing.

At Glasstech Asia 2022, the company showcased Thermoflex™ and Thermobar™ Warm Edge Spacer systems.

Used to partition glass within a sealed unit, Thermoflex™ Warm Edge Spacer Bar is a bespoke pre-desiccated flexible foamed spacer system with a gas diffusion barrier. Thermobar Warm Edge Spacer tube, also used to maintain structural integrity within a sealed unit, is The Group's highest-performing rigid spacer bar.

Whilst up to 80 percent of energy loss through a window occurs at its edge, the composition of Thermoflex $^{\text{\tiny{IM}}}$ and Thermobar $^{\text{\tiny{IM}}}$ Warm Edge Spacers helps to create a gastight and structurally sound insulated glass sealed unit, to significantly reduce the heat loss at the edge of the glazing unit.

Both Warm Edge Spacer Systems have undergone rigorous testing and quality control to ensure that standards adhere to strict quality control procedures. Accordingly, both the Thermobar and Thermoflex range are Passive House Certified Components which can achieve a phA+ rating, very low thermal conductivity and Psi values of 0.175 Wm/K and 0.14 Wm/K, and full compliance with Euro Norm (EN) 1279 and ASTM standards.



Sales Director Mark Hickox and his colleague Dietmar Maginot, Export Sales Manager, Thermoseal Group (right) at their booth.

Sales Director Mark Hickox comments: "We came to Glasstech Asia to explore the market. The show is a fantastic way to network with international business prospects. On our stand, visitors were able to obtain samples of our comprehensive product range, whilst learning more about the advantages we offer over other Insulated Glass component suppliers on the market."

For more information, visit www.thermosealgroup.com.



Digital & PDF Issues

You can find digital & PDF versions of the print issues on our website and on ISSUU. Just go to our website: **https://seab.tradelinkmedia.biz,** and click on **"Magazines"** to download the latest issue and the archived content. Visit **ISSUU** for the flip version.



ABS 2022 hosts industry leaders to discuss the way forward for the Built Environment in the postpandemic & digital age

The mega event, which spanned across seven co-located international exhibitions and nine conferences, became the meeting hub for the Built Environment over three days.



Opening remarks by GOH Ms Sun Xueling, Minister of State, MHA and MSF. (Photo credit: Conference & Exhibition Management Services)



Welcome remarks by Edward Liu, PBM, MBA, CEM, FMIS, Group Managing Director, Conference & Exhibition Management Services. (Photo credit: Conference & Exhibition Management Services)



Welcome remarks by Mr Faizal Zainal, Head, Security Industry Institute. (Photo credit: Conference & Exhibition Management Services)

rchitecture & Building Services (ABS) 2022, Singapore's three-day mega expo organised and curated for the Built Environment industry, opened its doors on 16 November 2022 to industry leaders, trade visitors and conference delegates, at the Marina Bay Sands Expo & Convention Centre.

In the morning, Guest-of-Honour Neo Choon Keong, Deputy CEO, Building and Construction Authority, Industry Development, officiated the opening of the 8th International Facility & Strata Management Conference (IFSMC) 2022, themed 'Shaping the Future Digital Built Environment'

In the afternoon, Guest-of-Honour Sun Xueling, Minister of State, Ministry of Home Affairs & Ministry of Social and Family Development; officially opened the Temasek Polytechnic-SII Security Conference 2022 by the Security Industry Institute (SII), themed 'Revolutionising the Security Industry: Sustainability & Efficiency'.

The ABS series, organised by Conference & Exhibition Management Services (CEMS), is the premier one-stop destination for international products, solutions, and service providers to boost their exposure to the local and international markets. The show is dedicated to the Built Environment and related sectors ranging from Architecture, Facility Management, Lighting, Safety and Security, Fire Disaster Management, Work Safety, and



Design – bringing leading businesses and organisations related to the Built Environment under one roof.

Themed 'Sustainability in a Digital Built Environment, ABS 2022 provided a real-time interactive and curated experience to connect the industry and also its marketplace formed by exhibitors and trade buyers.

The seven concurrent tradeshows under ABS 2022 were:

- ArchXpo2022 The8thInternational Exhibition of Architecture & the Built Environment
- International Facility Management Expo (iFaME) 2022 – The 9th International Facility Management Equipment, Products, Technology & Services Exhibition
- Lighting Asia 2022 The 8th International LED + Lighting Technology Show
- Safety & Security Asia 2022 The 20th International Safety & Security, Technology & Equipment Exhibition
- Fire & Disaster Asia 2022 The 18th International Disaster, Emergency Management & Fire Prevention, Technology & Equipment Exhibition

- Work Safe Asia 2022 The 8th International Workplace Safety, Technology & Equipment Exhibition
- Design Asia 2022 The 2nd International Designers Expo for Asia

ABS 2022 also hosted nine significant conferences, symposiums and forums led by industry experts and leaders. The conferences are held concurrently with the seven exhibitions. The conferences are organised to tackle various topics that are current to the Built Environment industry — challenges, solutions, trends, and new developments. These conferences are important conduits to delegates, industry players, and businesses with regard to the sharing of crucial information on how the industry can move forward as Singapore emerges from the pandemic.

The nine conferences under ABS 2022 were:

Wednesday, 16 November 2022

- 8th International Facility & Strata Management Conference (IFSMC) 2022
- 2. Temasek Polytechnic-SII Security Conference 2022 by Security



Industry Institute (SII)

3. 2nd ASEAN Young Architects Forum 2022

Thursday, 17 November 2022

- 4. ASIS & ISRM Singapore Conference 2022
- 5. WSHForumforFacilitiesManagement Industry 2022
- 6. REDAS Integrated Digital Delivery (IDD) Symposium 2022

Friday, 18 November 2022

- UAP Singapore Chapter ArchXpo Conference 2022
- 8. 2nd Design Asia Congress 2022
- 9. Hotel Security Roundtable

Worksite Solutions exhibits Entrance / Outdoor Mattings, Wall Protections and Floor Revitalisation Products

ounded in 2016, Worksite Solutions Pte Ltd provides high quality products in the construction industry and seeks to continuously improve its products and work processes to provide the most appropriate solutions to cater to their clients' ever- changing needs in the industry.

The company is a distributor for Gradus, Plastex, Bona and Progress. Products include Entrance Matting, Outdoor mattings, Wall Protection Systems, Floor Accessories and Floor Revitalisation Coatings.

Worksite Solutions showcased the products at ABS 2022.

"A good exhibition where networks are forged and innovations are shared. An exhibition is in many ways a series of conversations, and we felt that we had some really good conversations that answered the questions of many," said Henry Tse, Business Development Manager, Worksite Solutions Pte Ltd.

For more information, visit www.worksitesolutions.com.sg.



Mr Wilson Lam, Director, Worksite Solutions Pte Ltd (left) and Mr Henry Tse (right) at their booth.



H3 Dynamics Pte Ltd unveils drone for interior spaces

3 Dynamics is a Singaporean AI, process digitization and robotics technology leader that aims to address the challenges of managing the health and safety of ageing cities as well as the digitization of the AEC environment. At ABS 2022, the company showcased its flagship product Façade Inspector, which uses artificial intelligence and drone technology for building inspections.

It also unveiled a new inspection product called Interior Inspector, which assists facility managers and property managers to identify issues or defects in interior spaces as part of their maintenance and operations.





The Interior Inspector was showcased at H3 Dynamics' booth.



Shaun Koo (left) and his colleague at their booth.

"The Interior Inspector uses off-the-shelf 360 cameras for captures and proprietary automated AI-powered workflows to provide more detailed and accurate information on the defects in building facilities to facility managers for remediation works," said Shaun Koo, Chief Technology Officer: H3 Zoom, H3 Dynamics Pte Ltd.

For more information, visit www.h3dynamics.com.

OTSAW Digital Pte Ltd showcases its range of autonomous robots

OTSAW Digital Pte Ltd designs, engineers, and builds autonomous robots to disrupt Facility Management through Al-enabled technology solutions. OTSAW provides smart solutions to boost productivity, reduce reliance on manpower, and automate in the realms of Security, Delivery and Cleaning to help resolve global issues on labour shortage and the rising wages.

At ABS 2022, the company showcased its wide range of autonomous robots amongst which was the O-R3 Outdoor Surveillance Robot. This autonomous security robot is powered by patented 3D SLAM based navigation technology, and has the capabilities to patrol streets, pathways and open spaces, avoid static and dynamic obstacles, and return-to-base when its energy runs out.

With HD cameras, 360° view of computer vision, and a wide range of sensors, OTSAW's O-R3 is able to capture, record, and process a vast amount of information. The O-R3 operates 24/7 boosting higher productivity in security operations and



The OTSAW team at their booth at ABS 2022. Photo credit: OTSAW



O-R3, OTSAW's autonomous security patrol robot at the exhibition. Photo credit: OTSAW

presents a physical presence to help deter crime.

"The OTSAW Surveillance Robot is useful for facility management managers to gather information in real-time, allowing optimal understanding of the situation for better decision making" said Mr Lim Chung Boon, Sales and Service Delivery Manager, OTSAW Digital Pte Ltd.

OTSAW also exhibited O-RX, an autonomous UV-C LED disinfection robot, claimed to be the first of its kind in the world by the company. The O-RX has been successfully lab tested against live human coronavirus samples, achieving a disinfection efficacy of 99.99 percent, within 5 minutes, at a range of 2.5 metres. The advanced UV-C LED technology emits only UV-C light, which is effective in killing bacteria and microbes, including viruses such as the coronavirus

By using UV-C LED light for sanitizing and sterilization, it is 70 percent more energy efficient as compared to conventional cleaning robots with mercury lamps. In addition, it is friendly to humans as it is much safer and non-cancerous to human skin as compared to conventional mercury lamps that emits harmful UV-A and UV-B radiation.

On top of that, Camello, OTSAW's last-mile delivery robot was also seen patrolling the exhibition floor. With an autonomous robotic solution that can handle last-mile deliveries, supply chain management can then prioritize manpower in other areas, working towards higher efficiencies and lower costs.

For more information, visit www.otsaw.com.

HD Fire Protect Pvt. Ltd exhibits fire protection products

D Fire Protect Pvt. Ltd and its distributor SFC Consultancy & Engineering PvtLtd took part in ABS 2022 to showcase its range of fire protection and suppression systems and products.

It was the company's first time at ABS 2022.

"Besides selling our standard fire protection systems, we also provide customized fire protection solutions according to customers' requirements," said Shashhi Bhaskaran, Managing Director, SFC Consultancy & Engineering Pte Ltd. HD Fire Protect is represented in Singapore by Lito Nosa, Senior Business Manager for Asia. Through this partnership, HD products has the best support in Singapore, benefitting customers with prompt services and support.



Mr. Shashhi Bhaskaran (far left) and Mr. Lito Nosa (far right).

designing, developing and manufacturing world-class UL/FM approved firefighting equipment and systems. The company provides a wide range of products for commercial, industrial as well as for petrochemical industry firefighting systems. They include foam system, deluge system, water spray nozzles, system valves and equipment, sprinklers, alarm valves, pre-action systems, etc.

For more information, visit www.hdfire.com.

HD Fire Protect has been involved in



ALUX PTE LTD introduces ALUX-AIRDOOR®

A MS Aluminium & Glass Sdn. Bhd (ALUX PTE LTD) is a leading supplier of Alux brand of aluminium kitchen cabinet, window & glass systems and aluminium furniture & applications.

Spearheading the innovations and applications of aluminium & non-ferrous material coupled with state-of-art fabrication technology, ALUX stands out to lead the product trends via sleek, cohesive and proven engineering designs.

At ABS 2022, AMS Aluminium & Glass Sdn. Bhd. introduced ALUX-AIRDOOR®, an innovative solution that is highly durable, water-resistant and aesthetically pleasing.

The ALUX-AIRDOOR $^{\mbox{\scriptsize 8}}$ is made up of 2 ply compact panel, aluminium honeycomb and aluminium hinges, making it suitable for bedroom and bathroom.

In addition to being waterproof, anti-termite, anti-bacterial, non-corrosive, anti-impact, heat resistant, easy to clean, and highly durable, ALUX-AIRDOOR® is customizable. It can be built according to your needs.

The ALUX-AIRDOOR® is a high-performance door system that brings together styles and functions to elevate modern living with a touch of luxury, at affordable prices.

For more information, visit www.alux.com.my.



Katherine Lee, Sales Manager (extreme right) and her colleagues from AMS Aluminium & Glass Sdn. Bhd. at their booth.

FacilityBot helps to digitize all your facilities management processes

acilityBot is a backbone workflow system for all your facilities management needs deployed as a Software as a Service (SaaS) product. By integrating sensors and other IOT devices, requests can be triggered automatically and responders alerted to investigate.

FacilityBot offers the following advantages:

- Digitize all your facilities management processes
- Maintain a single-source of truth
- Extract productivity savings from all processes
- Delight and impress building occupants with an elevated level of service
- Simplify and automate processes
- Integrate with IOT sensors and other systems
- Analyse data and automate reporting
- Capture evidence and be audit ready

In addition, FacilityBot is 'Mobile and Messaging First', allowing requestors to report faults through multiple channels including popular messaging apps such as WhatsApp, Telegram, Slack and Teams. FacilityBot's various cloud-based system components are designed to make interaction as convenient as possible for all users.



Patrick Sim at his booth.

FacilityBot has been serving Facilities Managers and Building Owners since 2018 and has been growing steadily in recent years. "Our product can be used in various industries and it is open to IOT integration, making it unique and user-friendly," said Patrick Sim, Co-Founder, FacilityBot.

For more information, visit https://facilitybot.co.

IES shares benefits of digital twin technology

eadquartered in Scotland, UK, but with global offices, including Singapore, IES is a developer of digital twin technology for the decarbonisation of the built environment. The company supports the energy efficient design and continuous operational optimisation of not just single but entire groups of buildings, helping companies manage and reduce their energy consumption and forecast building performance to identify where improvements can be made.

At ABS 2022, the company demonstrated the exciting opportunities that digital twins present to navigate the route to zero-carbon, sustainable and healthier communities. These virtual building replicas respond and behave like their real world counterparts, function as problem solvers and translate data into essential decision support information to improve performance and reduce risk.

The company's Intelligent Communities Lifecycle (ICL) is a suite of digital twin technology for decarbonising any built environment. It includes tools to support new building design and retrofit, sustainable masterplanning, efficient building operation, and energy network modelling and optimisation.

Yann Grynberg, Head of ICL Partnerships at IES, commented: "It was a pleasure to represent IES at ABS 2022. IES have been pioneering the development of sustainable analytics technology for the built environment for almost three decades, so this year's theme — Sustainability in a Digital Built Environment



Yann Grynberg, Head of Partnerships (second from extreme left) and his colleagues from IESVE at their booth.

- presented the ideal opportunity to showcase how our innovative digital twin solutions can support the creation of more sustainable, resource-efficient and resilient built environments."

For more information, visit www.iesve.com.

Coval unveils next generation nano coatings

Oval Technologies Pte Ltd manufactures a range of single component easy to apply thin film coatings. The coatings interact on the molecular level to covalently bond and cross-link to the substrate regardless of the surface profile. They can be applied directly to metal, concrete, tile, painted surfaces, epoxy, fiberglass and even glass.

The high-tension cross-linking creates an entirely new surface that is extremely hard, totally waterproof, graffiti proof, and highly resistant to abrasion, acids, stains, mold, and corrosion. All of this is done while maintaining low VOCs, adhering to California Prop 65 and SCAQMD standards, and providing environmental solutions to the facilities management, marine, aviation and decarbonization industries.

At ABS 2022, Coval introduced its new 'next generation nano coatings' called Coval Concrete and Coval Vinyl.

Coval Concrete is designed to work over Coval Primer to seal, enhance and protect porous concrete surfaces. It is easily and quickly applied with an acetone pump sprayer. Coval Concrete is used on concrete floors, retaining walls, infrastructure, and all forms of precast concrete.



Mike Ellsworth (extreme left), Alec LaVergne, and Bernardine Wong from Coval Technologies at their booth.

Coval Vinyl protects vinyl flooring from surface wear, stains, and harsh chemicals. It is easily and quickly applied with an acetone pump sprayer and is used over any VCT, LVT or other laminate flooring substrates. Because it creates a covalent bond with the substrate, it is easy to clean and reduces maintenance costs and saves you money over time. No harsh cleaning chemicals are required to clean Coval-coated substrates.

Coval moved its US headquarters to Singapore at the beginning of 2022. It has set up a factory in Tuas to manufacture its coatings. "Nanotechnology provides a barrier and protects surfaces from all types of spills as it does not penetrate the floor or wall surface," said Mike Ellsworth, CEO, Coval Technologies Pte Ltd.

For more information, visit www.covaltechnologies.com.



cloud.stonefair.org.cn



EXPLORE ONLINE ALL YEAR ROUND



GET UPDATED ON









The 20th Edition of Building Materials, Architecture, Interior Design, Construction Exhibition & Conference in Indonesia.



HELP YOU TO GROW YOUR BUSINESS IN INDONESIA

Program & Activities During the Expo:

Business Matching | Indonesia Trade Connect Program

Seminars & Conference | New Product & Technologies Launches | Brand Presentation Architecture Gallery | Young Interior Design Awards | Innovation Award | Many more

Secure Your Space, EXHIBIT NOW!



+62 811-8805-638



megabuild.marketing@panoramamedia.co.id



where Opportunities Connect 💮 www.megabuild.co.id 📵 megabuildindo







architect'23

Flavorful Architecture



Organized by









In Partnership with











Southeast Asia Building (SEAB) is an architectural news portal that keeps architects, designers, developers and engineers updated on regional and international news, projects, events and technology. We provide multiple platforms for our clients to communicate to their target audience effectively.

Scan QR code below to read our news.

Sign up for free subscription.



Connect with us on social media!





www.twitter.com/ SEA_Building



www.linkedin.com/ groups/3927291



www.instagram.com/ southeastasiabuilding

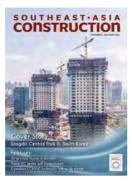


PRINT

Please (\checkmark) tick in the boxes.



Southeast Asia Building Since 1974



Southeast Asia Construction

1 year (6 issues) per magazine

Singapore	SGD\$70.00
Malaysia / Brunei	SGD\$120.00
Asia	SGD\$180.00
America, Europe	SGD\$220.00
Japan, Australia, New Zealand	SGD\$220.00
Middle East	SGD\$220.00



Bathroom + Kitchen Today Since 2001

1 year (4 issues) per magazine

Singapore	SGD\$40.00
Malaysia / Brunei	SGD\$90.00
Asia	SGD\$110.00
America, Europe	SGD\$160.00
Japan, Australia, New Zealand	SGD\$160.00
Middle East	SGD\$160.00

■ DIGITAL



Lighting Today

is available on digital platform. To download free PDF copy, please visit:

http://lt.tradelinkmedia.biz



Security Solutions Today

is available on digital platform. To download free PDF copy, please visit:

http://sst.tradelinkmedia.biz

Security Solutions Today Since 1992

Particu

Name:

Since 2002

Position:

Company:

Address:

Tel:

E-Mail:

Professionals (choose one):

Architect Landscape Architect Property Manager Manufacturer/Supplier

Bank transfer payable to:

Trade Link Media Pte Ltd

Bank Details

Trade Link Media Pte Ltd Account Name:

033-016888-8 Account Number: Name of Beneficiary Bank: **DBS Bank**

Address of Beneficiary Bank: 12 Marina Boulevard, DBS Asia Central,

Marina Bay Financial Centre Tower 3,

Singapore 018982

Singapore Country: SWIFT Address/Code: DBSSSGSG

IMPORTANT

Please commence my subscription in (month/year)

Interior Designer

Developer/Owner

Engineer Others

PAYNOW to:

Trade Link Media Pte Ltd





PAYNOW option is applicable for Singapore companies only.

Company Registration Number: 199204277K

2023

Feb

Modular & Pre-Con Korea 2023

16-19

Republic of Korea E: modularkorea@esgroup.net W: www.modularkorea.com

KINTEX, Ilsan

2023

Feb

23-26

MegaBuild 2023

Jakarta Convention Center Jakarta, Indonesia T: +62 811 8805 638

E: megabuild@panoramamedia.co.id W: www.megabuild.co.id

2023

Geo Connect Asia 2023 Sands Expo & Convention Centre

Marina Bay Sands **15-16** Singapore Mar

E: Ariel@montgomeryasia.com W: www.geoconnectasia.com

2023

16-19

Mar

ARCH: ID 2023

ICE BSD

BSD City, Pagedangan, Tangerang Regency, Banten, Indonesia

T: +62 21 8379 6833 E: info@arch.id

W: www.arch.id

2023

16-19

Mar

WORLDBEX 2023 World Trade Center Metro

Manila and SMX Convention Center Manila Manila, Philippines

T: +63 2 8656 9239

E: inquire@worldbexevents.com

W: www.worldbex.com

2023

25-30

Apr

Architect'23

Challenger Hall IMPACT, Bangkok

Thailand

T: +66 2717 2477 E: info@TTFintl.com

W: www.architectexpo.com

2023

5-8

Jun

Xiamen Stone Fair 2023

Xiamen International Conference and **Exhibition Center** Xiamen, China T: +86 592 5959 616

F: +86 592 5959 615 E: info@stonefair.org.cn W: www.stonefair.org.cn 2023

19-22 June

Ceramics China 2023

Area A, Canton Fair Complex Guangzhou China T: +86 20 8327 6369 / 6389 **E:** ceramicschina@unifair.com

W: www.ceramicschina.com.cn

2023

26-29 July

ARCHIDEX 2023

Kuala Lumpur Convention Centre Kuala Lumpur, Malaysia T: +60 3 7982 4668

E: info@archidex.com.my W: https://archidex.com.my 6-8 Sept

2023

BEX Asia 2023

Sands Expo & Convention Centre Marina Bay Sands Singapore Singapore

T: +65 6780 4594 E: info@bex-asia.com W: www.bex-asia.com

Stay Connected With Us On **SOCIAL MEDIA**

Connect with us on any of our social media channels where we share the latest news on architecture, interior design and landscape design.

www.facebook.com/ southeastasiabuilding



twitter.com/ **SEA_Building**





http://seab.tradelinkmedia.biz/





Hunter Douglas

Malaysia



+603 5191 2020







See us at following upcoming events!

Event	Date	City	Country	Website	Page
Modular & Pre-Con Korea 2023	16-19 Feb 2023	Goyang	South Korea	www.modularkorea.com	3
MegaBuild 2023	23-26 Feb 2023	Jakarta	Indonesia	www.megabuild.co.id	73
Geo Connect Asia 2023	15-16 Mar 2023	Singapore	Singapore	www.geoconnectasia.com	1
ARCH: ID 2023	16-19 Mar 2023	BSD City	Indonesia	www.arch.id	IBC
WORLDBEX 2023	16-19 Mar 2023	Manila	Philippines	www.worldbex.com	5
Architect'23	25-30 Apr 2023	Bangkok	Thailand	www.architectexpo.com	74
Xiamen Stone Fair 2023	5-8 June 2023	Xiamen	China	www.stonefair.org.cn	72
Ceramics China 2023	19-22 June 2023	Guangzhou	China	www.ceramicschina.com.cn	9
ARCHIDEX 2023	26-29 July 2023	Kuala Lumpur	Malaysia	https://archidex.com.my	IFC
BEX Asia 2023	6-8 Sept 2023	Singapore	Singapore	www.bex-asia.com	7

Legend: IFC (Inside Front Cover), IBC (Inside Back Cover), OBC (Outside Back Cover)









The 3rd Indonesia Architecture Exhibition & Conference

ARCH:ID 2023 Identity?



16 —19 March 2023 ICE, BSD City Indonesia

The Most Awaited Architecture Trade Event in Indonesia

For exhibition inquiry, please contact:

+62 812 9429 2503 info@arch.id www.arch.id





